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Contract Number AT-33-1-GEN-53

MOUND LABORATORY Operated By MONSANTO CHEMICAL COMPANY MIAMISBURG, OHIO

Classification changed to Unclassified by authority of Lerray 1 Jones 12 1/21/74 by Alberta 1 Westin 8/2/74

REPORT NO. 3 OF STEERING COMMITTEE FOR DISPOSAL OF UNITS III AND IV

(Completion Report for Disposal of Unit IV, Runnymeade Road and Dixon Ave. Dayton, Ohio)

The document contains the secretary G defined in the Atomic Energy A s-transmittel or the tree SELECTION TO SERENCE SELECTION OF THE PROPERTY SELECTION OF THE PROPER PANEL DEFENDE TO PERSONAL PROPERTY OF THE PARENTY O

Date: April 17, 1950

F. L. Halbach

Chairman, Steering Committee

UNCLASSIFIED

USAEO/DAO Control No. 26 042-1

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#### MIM-461

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#### THE PROBLEM

After Monsanto Chemical Company moved its operations in the last months of 1948 and the first two months of 1949 to Mound Laboratory,

Miamisburg, Ohio, Monsanto and the Dayton Area Office of the Atomic Energy

Commission were confronted with the problem of the disposal of the original laboratories at 1601 W. First Street, Dayton, Ohio, hereafter designated

Monsanto Unit III, and at Runnymeade Road and Dixon Avenue, designated

Monsanto Unit IV.

A Planning Committee, set up to plan for appropriate disposal of these units, at a meeting on February 25, 1949 established a Steering Committee as follows:

"A general Steering Committee will be established to care for the whole job of disposal. Its primary function (and sole duty temporarily) will be to coordinate all phases of the disposal program." (From Planning Committee Report MLM C.F. No. 49-2-63, see TAB A.)

The Steering Committee was later temporarily inactivated. At a second meeting of the Planning Committee late in April, 1949, it was agreed to proceed with the work of disposal of both units under Engineering Division supervision (functioning as the original Steering Committee) with a full time Engineer-in-charge to be obtained, if possible, from Sciote project personnel. The work of the Steering Committee for Unit IV was defined to "coordinate all phases of the disposal program and see that things are carried through."

(Note the absence of definition of decontamination levels.)

Thus the problem covered by this report may be defined as the decontamination and partial dismantling of Unit IV, so that an outside

contractor subsequently engaged to complete the wrecking job can carry out that part of the work with contamination, and consequent health protective measures, reduced to a minimum.

The contamination referred to throughout this report is entirely due to polonium.

#### FACTORS AFFECTING THE PROBLEM AND THEIR SUBSEQUENT TREATMENT

#### 1. History of Unit IV

For a brief history of Unit IV, see TAB B, wherein are listed excerpts from the "Historical Report, Dayton Project," Document Number M-286.

#### 2. Transfer of Radioactive Property

To date there has been no definition of maximum contamination levels for return of property such as the grounds area of Unit IV to their original owner.

The only information furnished along these lines pertain to contamination levels for equipment and material entering commercial channels as defined in a letter to the Dayton Area Manager (see TAB C). In the case of Unit IV, no equipment or material will be sent to any location other than designated storage areas at Mound Laboratory. The grounds. area, after dismantling by others is complete, will be removed, as needed, so as to conform to the low levels mentioned in TAB C.

Additional information and several questions directly pertaining to the problem are presented in a letter to the Chief, Applied Biophysics Branch, Division of Biology and Medicine (see TAB D).

#### 3. Preliminary Work in Connection with the Disposal Program

The report listed under TAB A gives the initial conclusions, plans, and recommendations of the Planning Committee. Meanwhile, the work of the Steering Committee was postponed to permit property and material not of a fixed nature to be transferred to Mound Laboratory under Evaluation Committee supervision. In addition, surveys and preliminary estimates were prepared, and informal meetings between Monsanto and Atomic Energy Commission were held to discuss various phases of the job. Finally, at a second meeting of the Planning Committee in April, 1949 it was agreed:

- a. To proceed at once with the active phase of the disposal program.
- b. The work would be under Engineering Division supervision (reactivated Steering Committee) with a full time Engineer-in-charge, obtained from the Scioto project, and a full time Health Supervisor, loaned from the Atomic Energy Commission.
- c. The work was to be concentrated at Unit III to permit return of this property to the Board of Education as soon as possible; the work at Unit IV was to be started with a small token force to clean up, descritaminate and remove debris resulting from widespread contamination from earlier work there.

On this basis the Steering Committee proceeded with organization of the disposal program for both units, and the active work at Unit IV.

#### 4. Disposal Project History through February 3, 1950

A summary of the work in connection with Unit IV is given in TAB E. Final health surveys are listed in TAB F. The physical work by Monsanto

was completed on February 3, 1950 and Planning Committee and Atomic Energy Commission were advised so that plans could be formulated for further work by the dismantling contractor.

#### 5. Health Phases of the Disposal and Decontamination Project

- a. Preliminary and final surveys have already been covered under TABS E and F.
- b. Air samples were taken during all stages of the project, and are counted on the spot at Unit IV so as to maintain closest possible control over operations, and protect personnel from excessive airborne contamination. A breakdown of these tests is given in TAB G. This summary shows that:
- (1). Fifty two per cent of all samples were less than 3,000 d./min./m.<sup>3</sup>, the maximum limit for which no respiratory protection is required.
- (2). Ninety and one-half per cent of all samples were less than 25,000 d./min./m.<sup>3</sup>, the maximum limit for which respirators can be used.
- (3). Ninety six and four-tenths per cent of all samples were less than 50,000 d./min./m.3, the maximum level for which assault masks can be used.
- (4). Thirty five times during the project the air levels exceeded 50,000 d./min./m.<sup>3</sup>, and it was necessary to temporarily stop work in areas concerned. In all such cases, personnel were transferred to less contaminated areas, with no stoppage of overall work.

These results clearly indicate the care with which the project work was carried out as far as maintaining lowest possible air levels was

concerned. In view of the gross contamination problem at Unit IV it further shows the effectiveness of wet methods of keeping air levels down.

Personnel in many cases were respirators for their cwn protection, when air contamination might be expected, even though tests later indicated such protection was unnecessary.

c. Urine samples were collected twice weekly. The summary of these checks is given in TAB H. During the project three men became "hot" with the highest count being 30 c./min./50 ml. Total "hot" time was 360 manhours out of a total of approximately 18,000 manhours expended on the project. Men so concerned were of course transferred to cold area work during the periods they were classified "hot." Since the major part of the contamination has now been removed, it is quite unlikely that future work by the dismantling contractor should result in any of his personnel becoming "hot," measured by the same limit we used, providing recommended procedures are followed.

#### 6. Safety Record

No major or lost time accidents occurred during the work at Unit IV. Minor injuries were treated on the spot. Injured employees were sent to Mound Laboratory Medical Section for checkup and further treatment, if necessary. The Medical Section maintained thorough follow-up on all such minor injuries. Precautions were taken to prevent contamination of any open cuts or wounds, and personnel so affected were transferred to clean work until such wounds healed.

#### 7. Property

Property items were handled in accord with established procedures for transfer and regard for contamination levels. This phase of the work was handled in close collaboration with the Evaluation Committee, whose partial duty was to pass on disposal of all contaminated equipment and apparatus.

#### CONCLUSIONS

- 1. Monsanto Unit IV has been decontaminated as closely as possible, as shown by the final Health Survey, to within the level used as an upper limit for this project, and as defined to be the function of the Steering Committee.
- 2. All property, material, and scrap coming within the scope of this project have been disposed of in accordance with regulations for property transfer, contamination levels, usefulness, and salvage value. No material of any kind was sent to any public dumping ground.
- 3. It is unlikely that future dismantling work will present any problems from the contamination standpoint, providing the contractor follows procedures similar to those used by Monsanto.
- 4. Decontamination to levels lower than the one used for this project would have involved considerably more time, expense, and to have reached similar levels as used for Unit III would have been practically impossible to achieve by any method short of dismantling.
- 5. Experience on this project indicates that maximum limits set for air contamination could possibly be raised for similar projects or work.

  Close health supervision of course must be maintained.



TAB A

#### TAB A - REPORT OF THE COMMITTEE TO PLAN FOR THE DISPOSAL OF UNITS III AND IV

A committee was appointed to plan for appropriate disposal of Units III and IV whenever these activities may begin. The committee consisted of:

J. J. Burbage

- Assistant Laboratory Director

J. E. Bradley

- Section Chief, Decontamination and Survey

M. M. Haring (Chairman) - Laboratory Director

J. J. Spicka

- Business Manager

R. A. Staniforth

- Division Director, Research and Development

N. Varley

- Deputy Area Manager

J. R. Wiesler

- Division Engineer

The committee met in the conference room of Mound Laboratory at 9:00 A.M., February 25, 1949.

Certain facts were first established.

- 1. Among these were the tolerances set for moving contaminated equipment, etc. Dr. Failla ruled a year or more ago that no piece of equipment may be declared surplus or otherwise sent into the channels of industry unless it shows a direct reading on an alpha meter of less than two divisions, i.e., six disintegrations per minute per square centimeter. Of course the wipe test must be zero. In addition we had set, last summer, a suitable tolerance for moving equipment from Units III and IV to Mound Laboratory. This is 100 disintegrations per minute per square centimeter. with a zero wipe test.
- 2. A discussion of the present status of Units III and IV confirmed the following. Most of Unit III is fairly "clean" and can be decontaminated

on surfaces fairly readily. However, extensive disturbance of floors, walls, or plumbing will undoubtedly stir up much "hot" dust which is presently in cracks, etc. Incindentally such disturbance would be very costly. The Quonset hut is quite "hot," on the interior, and so are one or two laboratories in the main building. Almost all of Unit IV is very "hot." Decontamination would be almost impossible. In any case the Atomic Energy Commission has ruled that it be dismantled completely.

- 3. There is a great deal of valuable material at both sites that can certainly be salvaged. There is also a great deal of material the cost of salvage of which would greatly outweigh the recoverable value. To accomplish the task of disposal as economically as possible, these and several other factors must be carefully balanced.
- 4. Whoever accomplishes the task of wrecking and/or restoration must be adequately protected for the job. In most cases this will mean special clothing, gloves, masks, and often ventilated hoods. He and his surroundings must be fully monitored during the whole task.
- 5. It is most important, from the standpoint of public and industrial relations, that neighbors and workmen, other than our own, do not have their suspicions aroused concerning the unusual hazards of the operations. This means that the special protection metioned in (4) must not be apparent to them.
- 6. Whoever does the wrecking and restoration must have an intimate knowledge of both sites so that hazards, both present and future, are minimized. We are the only ones who really know or should be fully acquainted with these facts.



- 7. In view of the foregoing facts, the committee was unanimous that our own staff must restore Unit III and wreck the interior of Unit IV. A subcontractor can then, in all probability, safely wreck the outside of Unit IV.
- 8. We are severely limited in our own forces to accomplish this work. However, we have presently at Units III and IV about 36 guards, most of whom cannot be absorbed into the Mound Laboratory staff. Many of these men have considerably "handy-man" talent and, under suitable tutelage from our Engineering Department, could do much of the work. Those selected would, of course, be reclassified as general mechanics, drivers, etc. This would extend their possible period of employment by Monsanto, but there is no escaping the necessity of additional personnel during the period of disposal. These guards, being cleared, would be very valuable in meeting this need. Last fall, when discussing personnel requirements, it was pointed out that at least 20 men would be required for the purpose.
- 9. We have very extensive storage facilities at Scioto Laboratory which would be ideal to care for valuable contaminated equipment during a few years of "cooling off." Such equipment could be "cocconized," covered with a strippable plastic, or left "as is" depending on its nature and the degree of contamination.
- 10. There is adequate storage in the hidden back corners of Mound Laboratory to pile up contaminated material destined for destruction.

  None should be shipped to Oak Ridge. It is hoped that our contaminated burnable waste incinerator will be a reality by next Christmas. When this occurs, all such material can be permanently disposed of.

- 11. Unit IV is not to be touched, according to W. J. Williams, until it is certain the "T" Building will do what is expected of it. This does not appear to be possible before June, 1949. It is desirable to return Unit III to the Dayton School Board as soon as possible. Therefore, it is quite possible we should start on Unit III rather than Unit IV.
- 12. Spraying of interiors with a plastic to fasten down activity is an attractive possibility, if one can get at the activity. However, most of it is hidden and will dust out at each step. In addition, the cost would be extreme. An estimate of \$11,000 to so treat the interior of Unit IV was made last summer. J. R. Wiesler says this figure is far too low. The committee considers spraying a useful additional precaution but no substitute for standard procedures.

In view of the foregoing, certain procedures applicable to both Units III and IV were set up.

- 1. All things not contaminated and immediately useful to us should be moved to Mound Laboratory. They will have to be put into one of Maxon's construction warehouses until they can be sorted, inventoried, and permanently stored. Presently we are overwhelmed in this matter, the best estimate being six months to clear up the situation as of the moment.
- 2. All telephones must be carefully surveyed. If "clean" they can be returned to the Telephone Company. If "hot," as the majority are, they will be decontaminated to zero wipe test and exchanged for "cold" telephones in low risk areas at Mound Laboratory wherever possible. In this fashion the number of instruments we will be forced to buy will be kept to a minimum.

- 3. A committee has been appointed whose duty it will be to pass on all contaminated apparatus or equipment presently at Units III and IV. It is most important that the amount of scrapped items be kept to a minimum.

  To this end, this committee will determine the following points:
- a. Possibility of economical decontamination. Such items will be put in stores at Mound Laboratory or declared surplus property.
- b. Possibility of using certain equipment in "hot" areas at Mound Laboratory with little further treatment.
- c. Advisability of storing in warehouses at Scioto Laboratory to "cool off." The committee will also determine whether such items are to be "cocoonized," coated with a strippable plastic or left "as is."
- d. Exactly what apparatus and equipment should go to the scrap pile at Mound Laboratory.

This evaluation committee is as follows:

- J. J. Burbage (for Unit IV) Assistant Laboratory Director
- M. M. Haring (General Referee) Laboratory Director
- R. A. Miller (or J. E. Bradley) Section Chief, Health Instruments
- R. D. Shiffer (or F. L. Halbach) Plant Engineer
- J. J. Spicka (Chairman) Business Manager
- R. A. Staniforth (for Unit III) Division Director, Research and Development
- 4. As the evaluation committee proceeds through the various rooms and buildings, our engineering, health, and business personnel will proceed to act on its findings.

- 5. A general steering committee will be established to care for the whole job of disposal. Its primary function (and temporarily sole duty) will be to coordinate all phases of the disposal program and see that things are carried through. The committee will submit reports at biweekly intervals to management. The committee is as follows:
  - L. E. Byriel

- Area Office Supervisor
- F. L. Halbach (Chairman)(or R. D. Shiffer) Chief Design Engineer
- J. E. Bradley (or R. A. Miller)
- Section Chief, Survey and Decontamination
- 6. Both steering and evaluation committee should avail themselves of the services and advice of W. D. Woods, Legal Advisor to the Director, whenever any question pertaining to the contract or other legal matter arises. If further help from any of the divisions is indicated, they should approach the Division Director concerned.

The tentative specific programs for Units III and IV are as follows:

- 1. Dispose of all cold mechanical, plumbing, heating, and lighting equipment as the forthcoming agreement with the Dayton School Board may indicate.
  - 2. Sell the tropical huts, "as is where is."
- 3. Remove and scrap all duct work, except that used to heat the third floor.
- 4. Remove and scrap all benches, hoods, and temperary partitions except those on the third floor.
  - 5. Remove air conditioning units from the attic.

- 6. Vacuum clean and spray the attic.
- 7. Remove all contaminated mechanical, electrical, and plumbing equipment for disposal as recommended by the evaluation committee.
  - 8. Tear out the whole interior of the Quonset hut.
- 9. Survey the interior of the shell of the Quonset hut. If "bold" it can be sold "as is where is" or disposed of as agreed on with the School Board. If "hot" it should be sprayed with plastic and left.
  - 10. Clean cut, i.e., sweep, all rooms.
- 11. Survey all rooms, decontaminate where indicated, and resurvey to establish the fact of decontamination.
  - 12. Fence and guard houses should be left.
- 13. Return property to the School Board with the agreement that no major changes in walls, floors, or sewer lines be made within five years without seeking our aid in survey, etc.
- 14. Any of the items above may be modified if survey indicates they are necessary or unnecessary.

#### UNIT IV

- Dispose of all cold mechanical, plumbing, heating, and lighting
   equipment by warehousing at Mound Laboratory or declaring surplus property.
- 2. Remove all contaminated mechanical, electrical, and plumbing equipment for disposal as recommended by the evaluation committee.
  - 3. Spray interior as indicated by survey.
- 4. Tear out all rooms, partitions, etc., built in any hot operating area. Tear out ceiling, wall, and floor linings in the same areas. This will be a particularly hazardous operation. Spraying may be resorted to

where indicated, but is not expected to be of much use owing to the spongy porous nature of much of the material to be removed. Ventilated hoods and special clothing may have to be worn throughout.

- 5. All hot wreckage material should be sorted into burnable and non-burnable categories and hauled to the scrap piles at Mound Laboratory. The trucks used for this service will probably have to be considered expendable since their decontamination may prove to be impossible.
  - 6. Sweep out all loose dirt.
  - 7. Spray interior of shell wherever indicated by survey.
- 8. Hand over the shell of the building and surrounding small structures to Maxon for razing as arranged by the Atomic Energy Commission.
- 9. Material from razing should be put on the scrap piles at Mound Laboratory.

TAB B

#### TAB B - FACTORS AFFECTING THE PROBLEM

#### History of Unit IV

"It was speedily realized that Unit III would not suffice for production, so a further search was made for space. ...

In February, 1944 negotiations acquired the Runnymeade Playhouse in Oakwood, a suburb of Dayton, This location was called unit IV. Since this building is located in one of the finest residential sections of the city, some difficulty was encountered in leasing negotiations by Monsanto. However, condemnation proceedings were instituted and the property leased by the Government. This location was chosen primarily because it was the only building in Dayton that could be occupied immediately. It afforded sufficient floor space, head room, necessary services and, also, was approved by the security officials. It is owned by the Talbott Realty Company whose holdings are, primarily, the estate of the Talbott family. ... In addition to the main building there is a one and one half story garage, the main floor of which was converted into a carpenter shop and locker rooms.

Work was immediately started to erect three guard houses and a fence. Alterations to the main building were not extensive, but the interior presented many problems in constructing process facilities and laboratories. Care was exercised in making as few changes as possible in the building and the existing services to alleviate the problem of restoration upon vacating this site. ... Careful consideration was given in order to minimize annoyances such as noise, smoke, and dirt so as not to incur undue criticism from the residential area. ... Operations began in May, 1944. ...

From the desk of LERROY V. JONES

In May, 1945 it was decided that the Bismuth Process was superior to the Lead Dioxide Process for the manufacture of polonium. Consequently, mumerous changes were made in the production facilities located on the main floor of Unit IV. The equipment used in the Lead Dioxide Process was dismantled and shipped to Oak Ridge. In its place small laboratories designed for the Bismuth Process were constructed.

In 1945 a fireproof storage vault was erected on the grounds at Unit/IV for storage of classified materials."

See Figure 1, Plot Plan, Unit IV, July, 1947.

See Figure 2, Unit IV, Main Guard House Entrance.

See Figure 3, Unit IV, N.W. View of Main Building.

See Figure 4, Unit IV, Rear View of Main Building.

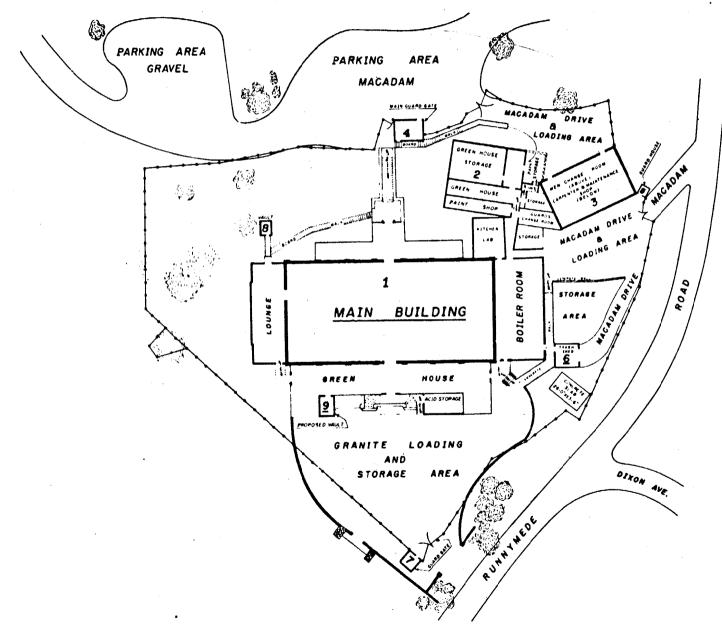
See Figure 5, Unit IV, S.W. View of Main Building.

See Figure 6, Unit IV, S.E. View of Main Building, Change House and Shop Building.

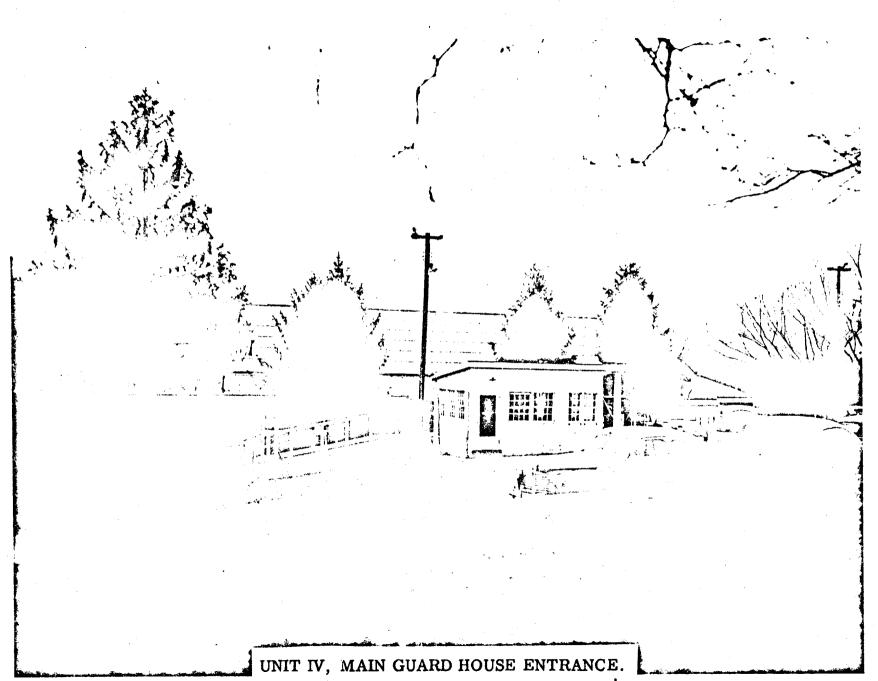
See Figure 7, Unit IV, Change House and Shop Building.

"Every laboratory working with radioactivity has the problem of protecting the workers against the health hazards arising from various radiations. The Dayton Project was no exception. ... Despite all efforts, contamination persisted at a higher level than desired."

Note: It is this contamination, in this case entirely from polonium, which makes this disposal of Unit IV a complex, difficult, potentially hazardous and expensive problem.

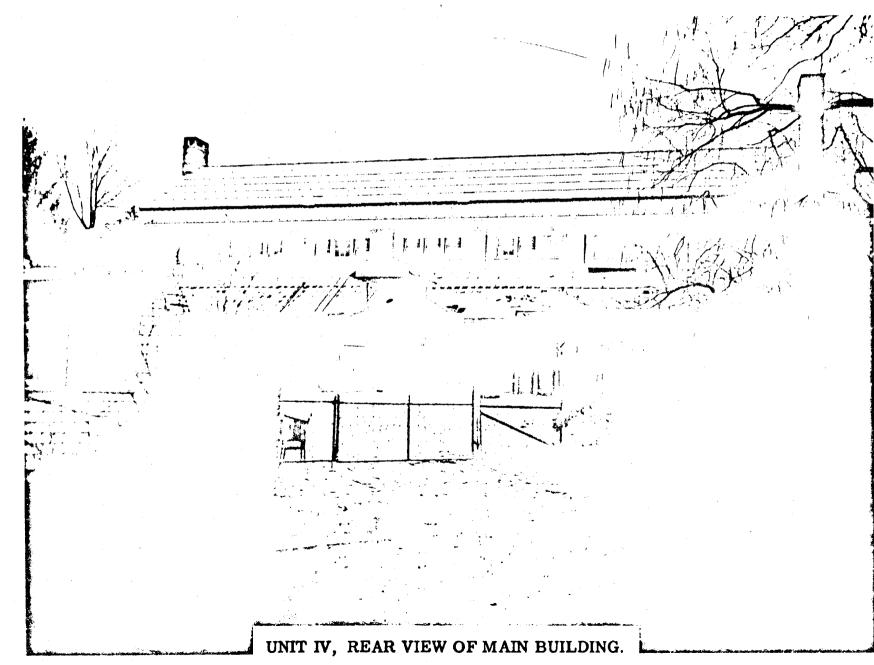


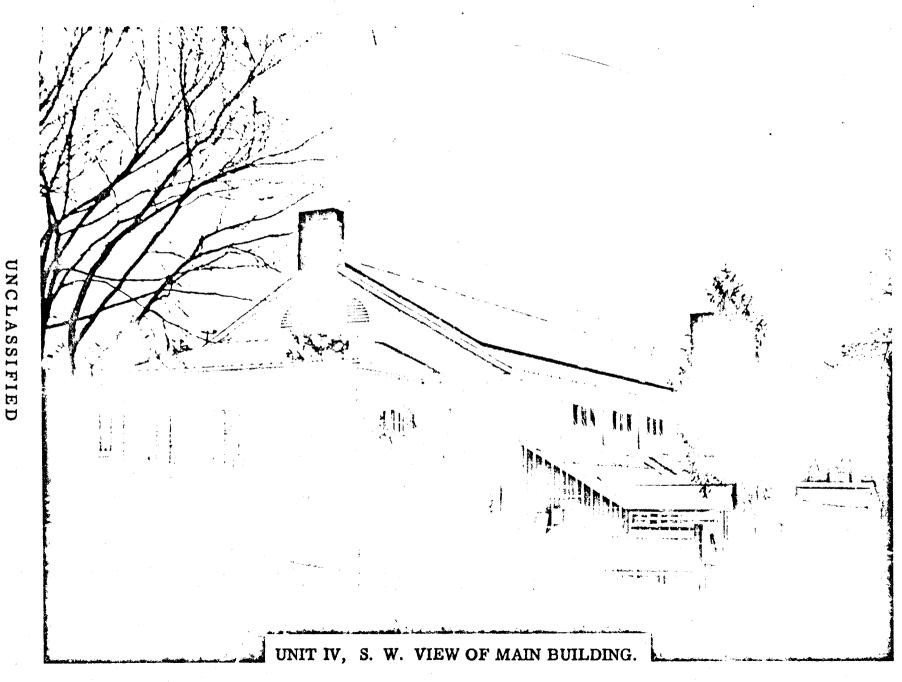
PLOT PLAN, UNIT IV. JULY, 1947

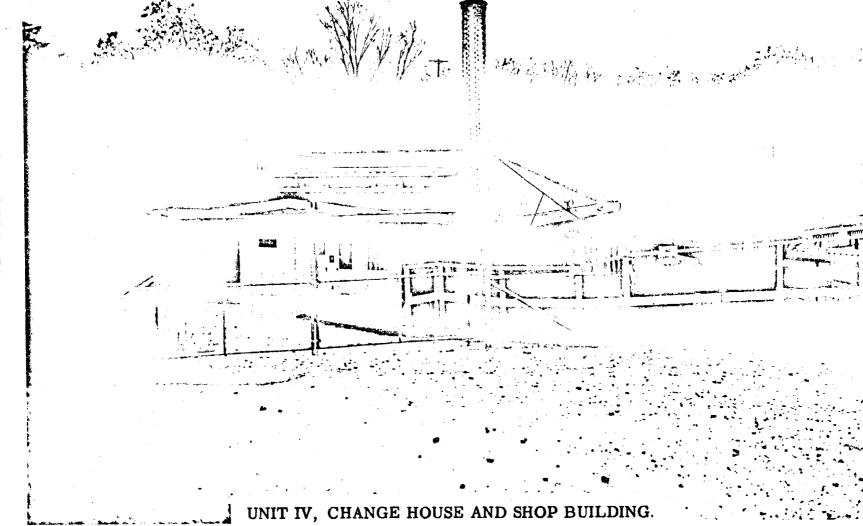


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TAB C

#### TAB C - RETENTION OF RADIOACTIVE PROPERTY AND SALVAGE MATERIAL

#### UNITED STATES ATOMIC ENERGY COMMISSION

EIDMW-3

Oak Ridge, Tennessee February 10, 1947

United States Atomic Energy Commission Dayton Area Dayton, Chic

Attention: Colonel R. J. Kasper, Area Engineer

Subject: RETENTION OF RADIOACTIVE PROPERTY AND SALVAGE MATERIAL

- 1. It is essential that action be taken to prevent radioactive material from entering commercial channels. You will establish necessary procedures to insure that it is impossible for materials of this type to lose their identity or to enter commercial channels through sales or transfer of surplus property, salvage, and scrap.
- 2. Material which gives greater than two times background on the instrument Victoreen 263, or greater than two divisions on the most sensitive scale of the Zueto will be considered sufficiently contaminated to justify withholding them from commercial channels until policies and procedures governing the disposition can be formulated.
- 3. In the event the instruments referred to in Paragraph 2 are not available, they may be obtained by submission of AEC Form 500 to the Instrument Production Section, Research Division, in accordance with District Circular Letter (Research Control 47-1) dated 27 August 1946.
- 4. The present procedures now governing the transfer of property and material between installations of the Atomic Energy Commission is not affected by this directive.

ATOMIC ENERGY COMMISSION

/s/ P. F. Kromer, Jr. Colonel Corps of Engineers Deputy Manager, Field Operations

BING

TAB D

- Runneynerde Play home

Old School home

Links 5000 du/min Ameto

- no wipe

TAB D - LETTER TO CHIEF, APPLIED BIOPHYSICS BRANCH, DIV. OF BIOL. AND MED.

June 30, 1949

Dr. Lauriston S. Taylor, Chief Applied Biophysics Branch, Div. of Biol. & Med. Joe Deal Applied Biophysics Branch, Div. of Biol. & Med.

VISIT TO DAYTON

REFER TO SYMBOL: BM:LJD

On Friday, June 24, 1949, Dr. Stoeckle and I spent the day at the Dayton Area. Since they have moved to Mound Laboratory, they now have the problem of disposing of the old plant which consisted of two sites in the city of Dayton, one of them known as "Runneymeade Playhouse" and the other, the old School House. The disposal of Runneymeade Playhouse will not pose the same difficulties since the Monsanto Health Division will be in complete charge of the operation, which consists of tearing the building down and storing it. I do not mean to imply that this will be an easy job. However, it will be under control.

The main problem at present is the disposal of the School House. Since the building does not belong to the Government but to the Dayton city school system and the School Board is looking forward to having it returned in the future, this poses a rather knotty problem. The Manager at Dayton has decided that he will make as thorough a clean-up as possible of the building without going into major construction or destruction with the idea of having a thorough survey at the completion of the clean-up. His staff will prepare a staff paper based on their findings. Mr. Dunbar felt that he had two possible choices. This was one and the other was not to do anything but write a staff paper making recommendations.

They have arbitrarily set as the limit of decontamination 5,000 disintegrations per minute as read on a Victoreen alpha survey meter. This corresponds, roughly, to 50 disintegrations per minute per square centimeter of area. In addition, a piece of filter paper wiped over the area will not show any contamination. Because of the inaccessibility of a number of places in the school building and because of the fact that pipes and electrical conduits, etc., are contaminated and can not be surveyed, they are faced with a number of questions. Some of these are:

- 1. Will they be able to decentaminate and removate the building, then return it to the School Board on a calculated risk basis.
- 2. What are the implications if they should return the building on a calculated risk plan.

- 3. Is their level of decontamination satisfactory.
- 4. Should they lease the building for several more years and allow the activity to decay.
  - 5. Should they buy the building and tear it down.

We discussed a number of these possibilities without really trying to come to any general agreement, since anything we would have decided would have been premature. There was some talk of turning the building over to the School Board with the provision that any major repair work would have to be supervised by the Monsanto health people. This did not seem very practical to me since once you lose control of the building you have no way of actually being certain that they don't do some work by ignorance on the part of the man doing the work or a slip-up in procedures or maybe the people would just not be willing to bother to wait on somebody to come from Miamisburg to make a survey.

One of the major considerations that was facing the health physics people at the time we were there was that they will not be able to decontaminate the roof. It was my opinion that since they had already made the decision to do the best clean-up they could, that this would be a problem for them to decide themselves rather than waiting to get an indication from some higher authority as to whether their 5,000 level is adequate. However, it would be of great assistance if they could get some indication on the general acceptance or rejection of their decontamination level. This is a rather arbitrary figure and was calculated independently by two groups there. The assumptions behind this figure are: (1) that they would accept in their new plant anything that contained as many as 10,000 disintegrations per minute provided that none of the contamination would wipe off; and (2) 5,000 disintegrations per minute is roughly either 10 or 100 times the level set for returning stuff to commercial channels. This latter figure is one I am not familiar with but I do know that before the AEC took over from the Manhattan District, there were some sad experiences due to releasing contaminated materials through the sale of surplus property. Because of this, an extremely low figure was set for the release of scrap on the open market. I am not sure about the history of this figure nor am I sure of what it is. However, it is a figure that can be dug out of the files.

In general, the situation does not seem impossible nor critical. The staff at Dayton, with the help of Mr. Hayden from Dr. Holland's office, seem to be feeling their way along and meeting each situation as it arises. I would recommend that we make an effort to consider the decontamination figure and then wait for the staff study that Mr. Dunbar will prepare.

TAP E

#### TAB E - DISPOSAL OF UNIT IV

The Engineer-in-charge was obtained from the Monsanto design staff on the Scioto Laboratory Project, and reported for duty on May 2, 1949, which date marks the beginning of the disposal program at both Units III and IV.

Work orders were assigned to the individual units and for preparation of a storage site at Mound Laboratory.

Personnel were obtained on a temporary transfer basis due to a reduction in force in the Security and Business Divisions. Other personnel were obtained as required on temporary loan from Engineering, Business, Operations, and Health Divisions.

The Health Supervisor, on temporary loan from the Atomic Energy Commission, Oak Ridge, Tennessee, reported for duty on May 23, 1949.

Work was first started in connection with preparation of a storage site for contaminated wastes at Mound Laboratory.

Prior to starting any actual work at Unit IV a preliminary health survey was made to measure spread of contamination from earlier work under direction of the Evaluation Committee. During this work it was found that contamination had been spread over pretty much of the entire Unit IV area. It was necessary to close the auditorium to presonnel for several weeks after this occurred. This survey still showed excessive contamination of walls, offices, locker rooms, and main guard house; in many cases exceeding 200,000 d./min./100 cm.<sup>2</sup> Consequently, decontamination work in these areas had to be carried out prior to tackling the main job of

disposal. Floors and walls were cleaned, painted where necessary, and paper laid on inside floors. A locker room was set up, and rooms were provided for on-the-spot counting of air samples, and for supervisory and health personnel.

Change house and health procedures were established similar to those used at Unit III in connection with smoking, eating, clothing change, showers, and washing of hands.

The following maximum permissible limits for air levels and necessary protection required for same were put into effect.

 $0-3,000 \text{ d./min./m.}^3$  - no protection required

 $3,000-25,000 \text{ d./min./m.}^3$  - respirators required

25,000-50,000 d./min./m. $^3$  - assault masks required

Over-50,000 d./min./m.3 - work ceases in such areas until air levels fall to within workable limits

The same maximum limit of 12 c./min./50 ml. for urine samples as is used at Mound Laboratory, was used on this project to determine work status of individual personnel.

Warehouses used during construction of Mound Laboratory were turned over for our use for:

- 1. Temporary storage of clean equipment and materials.
- 2. Temporary storage of contaminated equipment and materials.

Definition as given in TAB C was used to differentiate between clean and contaminated equipment. Items contaminated in excess of 5,000 d./min./100 cm.<sup>2</sup> were decontaminated and/cr packaged in a manner compatible with type, size, and shape prior to storage.

The first part of the disposal program consisted mainly of cleanup, decontamination, and disposal of materials, equipment and scrap that
had been accumulated during earlier work. Scrap materials were separated
into combustible and non-conbustible categories, and stored separately at
the contaminated storage site so that combustible material could later be
used in incinerator development program, or burned, if this unit has been
meanwhile perfected and installed. Extreme care had to be taken in
handling these materials, as contamination was mainly dust borne and
easily stirred up. All piles of scrap, hoods, entire laboratories
including floors and walls were spray painted to fix as much of the contamination as possible. (At this early date, wet methods of fixing dusts
had not been thoroughly tested.)

The Engineer-in-charge left Monsanto in June. The Assistant Engineer took over project supervision, and additional personnel obtained from the Operations Division to provide supervision at both Units III and IV.

No definite levels had ever been fixed for the final work at Unit IV. Due to the fact that Unit IV was to be completely wrecked, and all material from same to be sent to Mound Laboratory, it was felt that levels higher than those set for the work at Unit III could be used. At a meeting of the Planning Committee on July 23rd, called to discuss this and other problems that had arisen up to this date, it was agreed that levels higher than those for Unit III were definitely in order, and while no definite levels were fixed, it was further agreed that actual limits should be determined by field conditions, and the judgment and experience

of the Steering Committee, Engineer-in-charge and Health Supervisor, with approval given to an upper level of 50,000 d./min./100 cm.<sup>2</sup> direct reading and zero wipe for a working basis. Consequently, these conditions actually served as the basis for the work at Unit IV.

The personnel on the job were mostly reclassified as General Mechanics (later Maintenance Mechanics, 2nd Class) so that any type of job on the project could be assigned to any man, making necessary allowance for individual's physical condition and capabilities.

The initial clean-up and disposal work was completed early in August. Due to vacations, illness, etc., personnel was cut to such a few men that work at Unit IV was stopped during most of August and remaining men transferred to Unit III, then nearing completion.

During this period, the Health Department made an extensive survey of the entire unit to serve as a starting basis for the active decontamination and disposal program. Strangely the preliminary roof insulation survey indicated levels low enough to warrant leaving it in place. It had always been thought that this insulation would be highly contaminated, and entail considerable time and work to remove.

Due to success to date with decontamination of concrete and maintenance of low air levels during dismantling work by use of wet methods of laying dusts, the request was made that some field experimental work on these methods be carried out. This work was not to conflict, however, with the main job of disposal. All this work was conducted at Unit IV and a separate evaluation report issued on the results of these tests. Wet methods continued to be used extensively



during dismantling operations, and use of water is probably the chief single factor which made it possible to maintain a continuing work schedule with a minimum of work stoppage.

Similarly as at Unit III, practically every type of decontamination procedure was used at one time or another. However at Unit IV, due to its ultimate disposal, if there was any question as to method the particular object in question was removed rather than decontaminated. In other words it was less time consuming to remove contaminated material than to attempt decontamination. Painting was not recognized as a means of decontamination for this work.

The Health Supervisor left the project at the end of September.

Balance of work was carried out under Monsanto Health supervision. Final surveys are included as TAB F in this report.

Actual dismantling work was accelerated in September, due to advanced status of work at Unit III. Same procedures and methods as used there were carried over to work at Unit IV. The entire auditorium floor had to be removed down to the concrete sub-floor due to spotty though extensive contamination all the way through. The concrete sub-floor even required one complete acid wash, and additional spot acid washes. A final survey of the ceiling insulation showed that the levels (with two exceptions of 60,000) were less than 50,000 d./min./100 cm.<sup>2</sup> direct and N.D. wipe test. Samples were sectioned, and tests showed very little contamination or any evidence of dusting. Accordingly, ceiling insulation was left in place. The east macadam drive and a ten-foot wide area of macadam and paving block at the south loading dock were removed entirely.

Celotex side walls were well below levels used for the project and were left in place. Roof areas were below levels for job with one exception, which item was removed. Concrete floors in the south greenhouse and storage areas were grossly contaminated and, as these areas were pretty well painted over, had to be removed entirely, since acid washes had little effect on painted concrete.

See Figures 1 and 2, Unit IV, Main Building Interior During Dismantling Operations. (Work 90 per cent complete.)

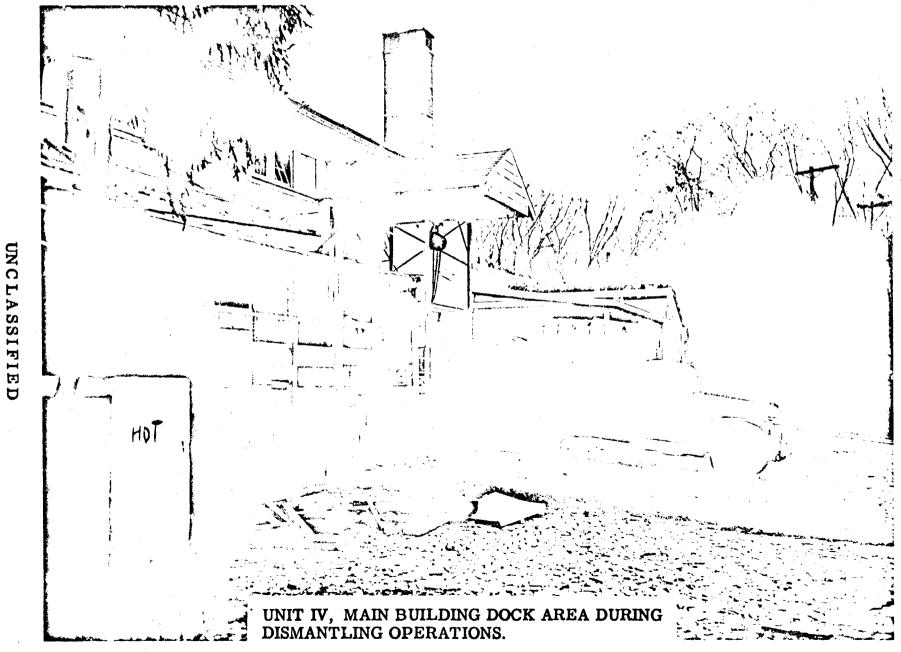
See Figure 3, Unit IV, Main Building Dock Area During Dismantling Operations.

The following amounts of material were transferred from Unit IV to Mound Laboratory:

160 loads - All types of contaminated scrap

40 loads - Property items and usable materials

The final Health Surveys, see TAB F, were compiled, and disposal work under Steering Committee supervision completed on February 3, 1950.





### Final Dismantling of Unit IV

Since it was deemed advisable to demolish and remove from the site all existing structures, the Atomic Energy Commission arranged to purchase from the Talbott Realty Company the buildings on this property owned by the Talbott Estate. Accordingly, all buildings, as property of the Government, were to be razed.

Details of the demolition and removal of Government-owned facilities are contained in a Directive dated February 13, which also makes reference to the purchase of the buildings owned by the Talbott Realty Company, copy of which follows.

Contract AT-(33-1)-81 was awarded to the R. G. Mattern Company for demolition and removal work. Active work was started on February 10 and completion was estimated to be May 15.

Figures 4 through 19 indicate the progress made during this phase of the work.

Following also are copies of letters dated February 13 and February 14 to the R. G. Mattern Company from the Atomic Energy Commission which are of interest in connection with this work.

### Conclusion

In view of the record at Unit IV we may conclude that other similarly contaminated buildings, drives, and grounds, after careful and thorough decontamination by operating Contractor personnel to levels approximating those used on this project, may be successfully razed or removed by outside wrecking contractors with a minimum of operating contractor advisory personnel and little likelihood of the small amount of the residual contamination causing any work stoppage, subsequent contamination of wrecking equipment or tools, or wrecking personnel becoming "hot," as measured in the usual manner.

### UNITED STATES ATOMIC ENERGY COMMISSION

In reply refer to: E:RWD

P. O. Box 66 Miamisburg, Chio March 14, 1950

Mr. R. G. Mattern 2310 North Western Avenue Dayton Ohio

Dear Mr. Mattern:

Reference is made to Contract No. AT-(33-1)-81 and to our letter of instruction, dated February 14, 1950.

Recent surveys have disclosed that it is undesirable from a contamination standpoint to let building No. 3 remain for future use. It is requested, therefore, that you take the necessary action to completely dismantle building No. 3 and transport the resulting residue of materials to Mound Laboratory in accordance with procedures for the demolition of the balance of Unit 4.

Very truly yours,

/s/ R. W. DeLozier Project Engineer

#### DeLozier/clh

CC: J. J. Spicka, Monsanto

M. W. Hicks, Monsanto

N. S. Talbott

Mr. R. G. Mattern February 14, 1950

utilized during the demolition operations looking to the possibility of this building remaining in good useable condition at the completion of your contract obligations.

Very truly yours,

/s/ R. W. DeLozier Project Engineer

DeLozier/mw

cc: Mr. J. J. Spicka

Mr. M. W. Hicks

Mr. N. S. Talbott

### UNITED STATES ATOMIC ENERGY COMMISSION

In reply refer to: EC:RWD

Post Office Box 66 Miamisburg, Ohio February 13, 1950

Dr. M. M. Haring Laboratory Director Monsanto Chemical Company Mound Laboratory Miamisburg, Ohio

Subject: DIRECTIVE DAY-11

Dear Dr. Haring:

Transmitted herewith, as a matter of information to you and for your record, are three copies of Directive No. DAY-11, providing authority and necessary funds for demolition of Unit No. IV.

Very truly yours,

/s/ E. A. Walker Assistant Area Manager

Encl.;
3 cys DAY-11

DeLozier/mw

MIM-461

UNITED STATES
ATOMIC ENERGY COMMISSION

Dir. Consec. No. 913 Dir. No. Day-11

PEE:NV

Oak Ridge, Tennessee February 13, 1950

Manager, Dayton Area U. S. Atomic Energy Commission Miamisburg, Ohio

Subject: DIRECTIVE FOR THE DEMOLITION AND REMOVAL OF COMMISSION-OWNED FACILITIES FROM THE TALBOTT CORPORATION PROPERTY, DAYTON, OHIO

Reference is made to memorandum from the Assistant Area Manager, Dayton Area, to the Director of Production and Engineering, Oak Ridge, dated January 26, 1950, subject, "Request for Directive Action."

Further reference is made to Commission obligations under Court Order (U.S. District Count, Southern District of Ohio, Civil No. 319). Conditions of the judgment rendered in this action stipulated, in part, that the Commission pay the defendant (The Talbett Realty Company) the sum of \$138,750 and, in addition, shall "cause to be demolished and removed, all of said improvements, including the foundations to a depth of seven feet, render all the sewer lines fit for public use, cap utility lines, fill all holes and grade said land, etc."

Since the Monsanto Chemical Company has completed all preliminary work - consisting of the dismantling and removal of laboratory equipment and contaminated materials previously scheduled for removal prior to final demolition work - you are hereby authorized to proceed with demolition work.

Required work shall be accomplished as follows:

- a. Dismantling and demolition work will be accomplished under a CPFF Prime Contract.
- b. The Monsanto Chemical Company, under Contract No. AT-33-1-GEN-53, will assist in the work by (1) furnishing all equipment, tools, supplies, work clothing, fuel, etc., (2) conducting health-physics surveys as required and (3) furnishing other related services as required to supplement the work of the demolition contractor.

Use of available Commission-owned construction equipment is authorized.

Isolated storage for contaminated materials and equipment will be provided at Mound Laboratory.

Subject: DIRECTIVE FOR THE DEMOLITION AND REMOVAL OF COMMISSION-OWNED FACILITIES FROM THE TALBOTT CORPORATION PROPERTY, DAYTON, OHIO

Work under this directive shall be completed by May 15, 1950.

Cost of the work authorized by this directive is estimated as follows:

Estimated cost to be incurred for removal of Commissionowned facilities by CPFF prime contract, including an allowance for fixed fee

\$32,000

Estimated cost to be incurred by the Monsanto Chemical Company for furnishing material and equipment and assisting in the work including a 25% allowance for indirect costs

\$23,000

TOTAL ESTIMATE COST

\$55,000

When work under this directive is completed, a "Notice of Completion" shall be promptly transmitted to the Office of Production and Engineering.

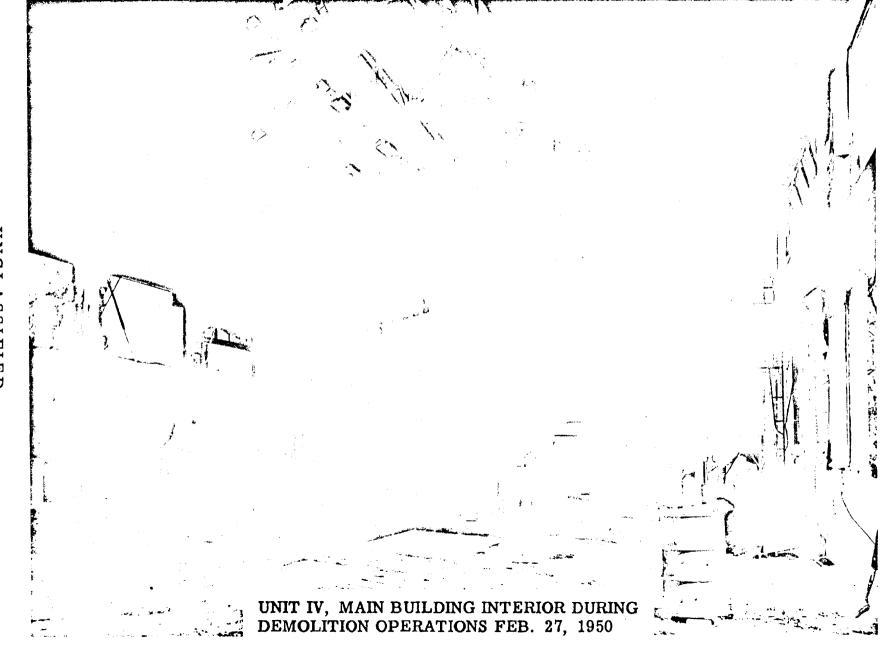
When final costs incurred under this directive are determined, a "Closing Statement of Costs" shall be prepared and submitted to the Office of Production and Engineering for distribution.

Authority is hereby granted to incur expenditures of \$23,000 under Contract No. AT-33-1-GEN-53. Authority is also granted to incur expenditures of \$32,000 under a CFFF prime contract. Funds for the work are available under Item Number 9 "Plant and Equipment," current Dayton Area budget submission.

/s/ C. Vanden Bulck for S. R. Sapirie Acting Deputy Manager



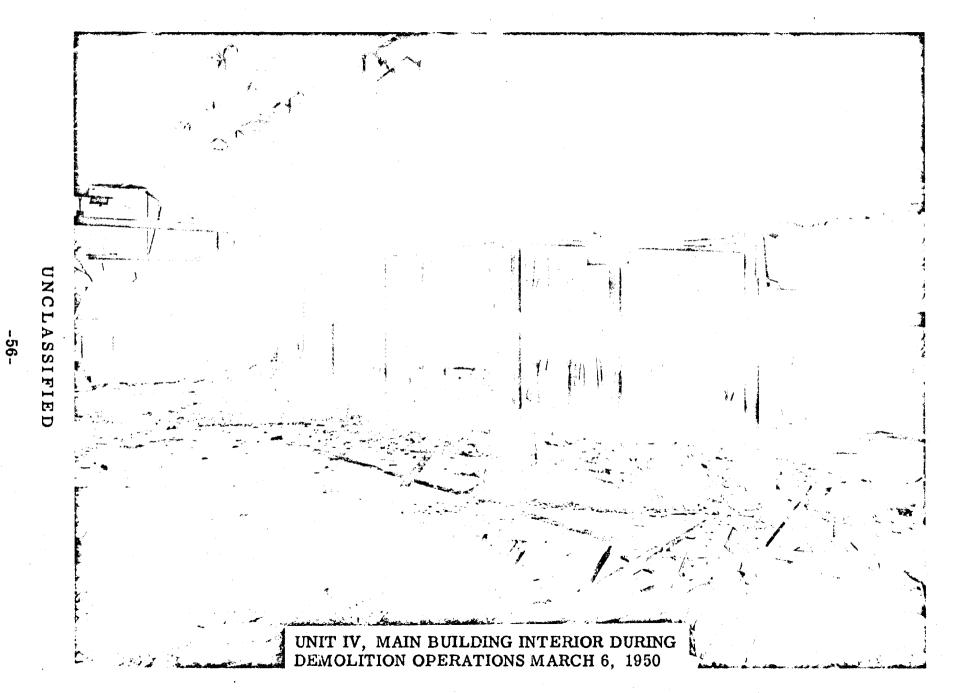
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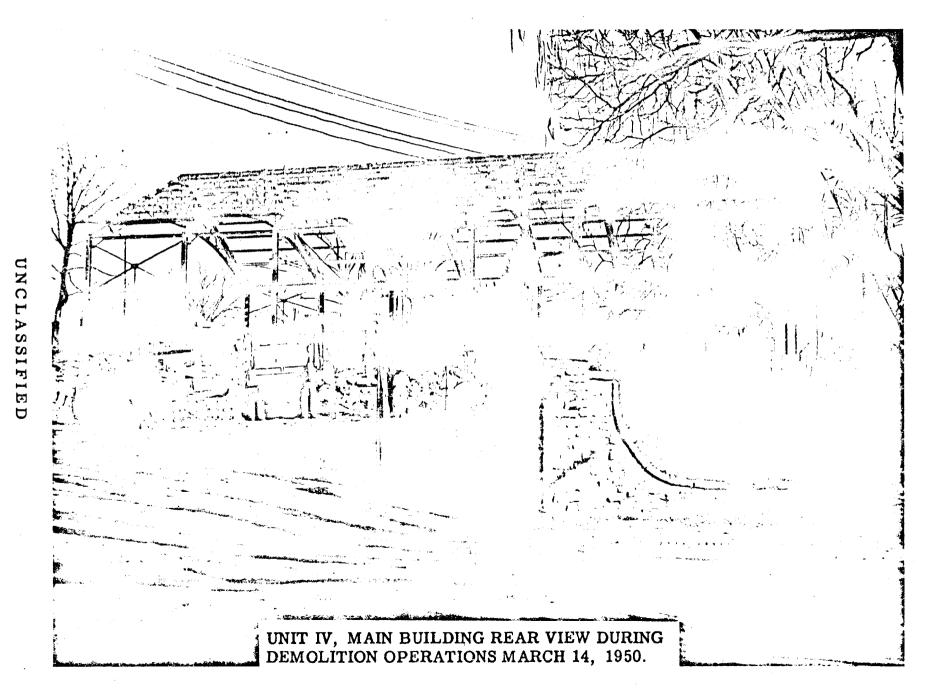


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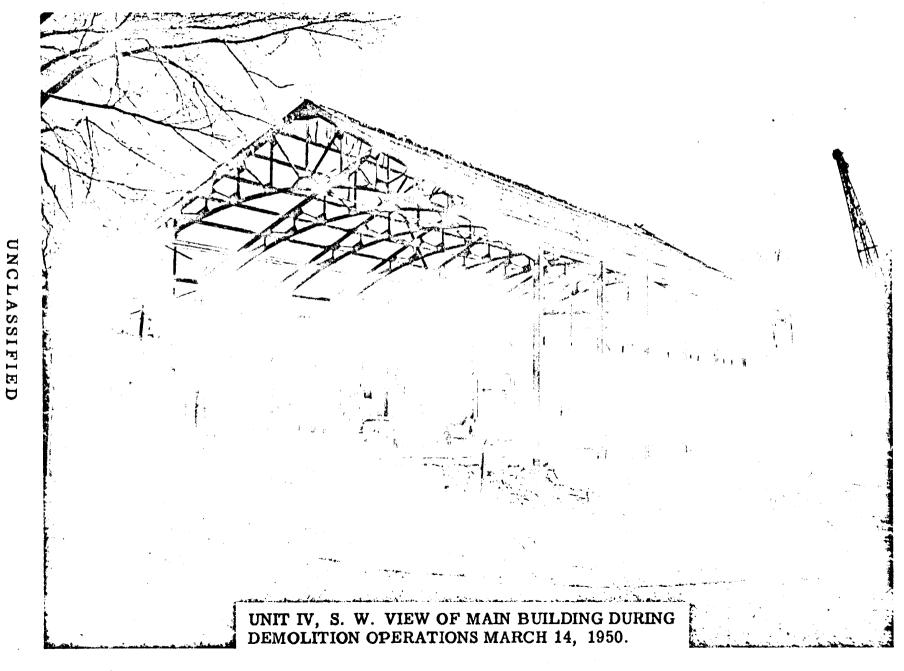
FIGURE 10

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TAB F

### TAB F - FINAL SURVEY - UNIT IV

The final survey represents the most accurate of all surveys at Unit IV and covers all areas of the plant. This survey determined whether or not an area was sufficiently decontaminated to be turned over to an outside contractor for demolition. All surveys reported in the attached tables were made by B. I. Johnson of the Mound Laboratory Health Survey Section. An estimated fifty per cent (50%) of the total floor surface was covered. An estimated ten per cent (10%) of all vertical surfaces and less accessible horizontal surfaces was covered.

with no detectable wipe and a direct reading of less than 50,000 alpha d./min./100 cm.<sup>2</sup> as measured with the various alpha meters available. A wipe sample represents the rubbing of an area of approximately 40 square inches with a 4.25 cm. disk of filter paper held with two fingers. "Not detectable" means that no reading was detected on an alpha meter calibrated from 250 to 500 d./min./division, depending upon the sensitivity of the individual instrument. Efforts to evaluate these wipes in a parallel plate alpha chamber were unsuccessful due to false readings caused by chemical ionization from the reagents used to clean the surfaces, and due to protruding fibers producing false counts due to arcing.

If areas were found to be higher than the limits set, they were reduced by decontamination until a satisfactory level was reached. In some cases decontamination to a level of less than 50,000 d./min./100 cm.<sup>2</sup> was impossible or impractical, in which case the area or item was dismantled and removed.

The first column in the table indicates a reading recorded, in most cases, before cleaning started. The blanks indicate that no readings were recorded. Readings reported as greater than (>) indicated that they were higher than could be read on the meters available at that time.

	Preliminary		Final	
•	Readings		Readings	
Location	Direct	Wipe	Direct	Wipe
Calorimeter Room (Assay)				
Floor northeast			13 800	\T .
Floor north center			11,780	N.D.
Floor northwest			12,860	N.D.
Floor center			10,800	N.D.
Floor center			10,800	N.D.
Floor center			·11,780	N.D.
Floor southeast			8,640	N.D.
Floor south center			13,940	И.Д.
Floor southwest			7,560	N.D.
Wall north			10,800	N.D.
Wall east			0	N.D.
Wall south			0	N.D.
Wall west			0	N.D.
Air conditioning duct			•	N.D.
Light fixture			3,240 4,320	N.D.
Light fixture			2,160	N.D.
Light fixture			4,320	N.D,
Light fixture			•	N.D.
			4,320	N.D.
Hallway (Assay)				
Hall north			8,000	N.D.
Hall center			10,000	N.D.
Hall center			8,000	N.D.
Hall south			6,000	N.D.
Wall west			0,000	N.D.
Wall east			Õ	N.D.
			•	21 000
Counting Room (Assay)				·
Floor northeast			27,020	N.D.
Floor northwest			21,600	N.D.
Floor center			32,420	N.D.
Floor center			27,020	N.D.
Floor southeast	•		27,020	N.D.
Floor southwest			24,840	N.D.
Wall north			Ô	N,D.
Wall east			0	N.D.
Wall south			Ō	N.D.
Wall west			0	N.D.
Lighting fixture			7,560	N.D.
Lighting fixture			8,640	N.D.

	Preliminary	Final	
Location	<u>keadings</u> <u>Direct Wipe</u>	Readi: Direct	ngs Wipe
Szillard Chalmers Room (Assay)		•	
Floor northeast		16,200	N.D.
Floor northwest		17,280	N.D.
Floor southeast		19,440	N.D.
Floor southwest		10,700	N.D.
Wall north		0	N.D.
Wall east		ő	N.D.
Wall south		Ö	N.D.
Wall west		ŏ	N.D.
Lighting fixture		4,320	N.D.
Steam pipe		7,560	N.D.
* * * * * * * * * * * * * * * * * * *		1,500	н.р.
Store Room (Assay)			
Floor north	•	13,940	N.D.
Floor southeast		8,640	N.D.
Floor southwest		5,400	N.D.
Wall north		0	N.D.
Wall east		Ō	N.D.
Wall south	•	Ö	N.D.
Wall west		Ō	N.D.
Receiving Room (Assay)			
Floor northeast		0 530	17 D
Floor northwest		9,720	N.D.
Floor southeast		10,800	N.D.
Floor southwest		8,640	N.D.
Wall north		7,560 0	N.D. N.D.
Wall east		0	N.D.
Wall south		Ö	N.D.
Wall west		ŏ	N.D.
Lighting fixture	· -	3,240	N.D.
		J,240	
Balance Room (Microassay)			
Floor west	150,000 1,000	19,440	N.D.
Floor center	100,000 1,000	18,360	N.D.
Floor east	, -,	18,360	N.D.
Concrete table in center of room		12,860	N.D.
Concrete table in east part of room	•	13,940	N.D.
Wall north	-	0	N.D.
Wall east		Ö	N.D.
Wall south		ŏ	N.D.
Door		0	N.D.

	Preliminary Readings	Fin Readi	
Location	Direct Wipe	Direct	Wipe
Post Doom off of East Counting Doom			
Rest Room off of East Counting Room Window sill		6 100	M 16
Radiator		6,480	N.D.
Floor morth		10,700 12,860	N.D.
Floor south		15,020	N.D.
Wall north	·	0	N.D.
Wall east		0	N.D.
Wall south		. 0	N.D.
Hall bottl		O	N.D.
Lavatory Room off of East Counting Room			
Window sill		2,160	N.D.
Radiator		0	N.D.
Lavatory		16,200	N.D.
Floor north		10,800	N.D.
Floor south		12,860	N.D.
Wall north		0	N.D.
Wall east		0 -	N.D.
Wall south		0	N.D.
Lounge off of East Counting Room			
Windew sill		3,240	N.D.
Radiator		3,240	
Floor northeast		10,800	N.D.
Floor northwest		8,640	N.D.
Floor center		8,640	N.D.
Floor center		10,800	N.D.
Floor center		8,640	N.D.
Floor southwest		8,640	N.D.
Floor southeast		10,800	N.D.
Wall north		0	N.D.
Wall east		0	N.D.
Wall south		Ö	
Wall west		0	N.D.
	•		
East Counting Room		# 100	
Window sill		5,400	N.D.
Radiator		5,400	N.D.
Wall north Wall east		. 0	N.D.
Wall south		0	N.D.
Wall west		0	N.D.
		0	N.D.
Floor northeast		23,760	N.D.
Floor northwest Floor center		12,860	N.D.
Floor center	-	8,640	N.D.
Floor center		16,200	N.D.
Floor center		10,800	N.D.
Floor southwest		16,200	N.D.
Floor southeast IMCIACCIE	מיזו	8,640 10,800	N.D. H.D.
Floor southeast UNCLASSIF	ILU	10,000	ه ليؤه 14

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	Preliminary	Fin	al
	Readings	Readi	ngs
<u>Location</u>	Direct Wipe	Direct	Wipe
Health Counting Room			
Window sill		4,320	$N \cdot D$ .
Wall north		0	N.D.
Wall east		0	N.D.
Wall south		O	N.D.
Wall west		0	N.D.
Floor north		10,800	N.D.
Floor center		12,860	N.D.
Floor center		16,200	N.D.
Floor south		19,440	N.D.
		•	
Long Tom Counting Room			
Wall north		0	N.D.
Wall east		0	N.D.
Wall south		0	N.D.
Wall west		0	N.D.
Floor northeast		8,640	N.D.
Floor northwest		10,800	N.D.
Floor southwest		8,640	N.D.
Floor southeast		6,480	N.D.
Firehose		2,160	N.D.
		,	
West Counting Room	•		
Window sill		2,160	N.D.
Radiator top		4,320	N.D.
Wall north		0	N.D.
Wall east		0	N.D.
Wall south		0	N.D.
Wall west		0	N.D.
Floor northeast		8,640	N.D.
Floor north center		8,640	N.D.
Floor northwest		10,800	N.D.
Floor center	•	6,480	N.D.
Floor center		6,480	N.D.
Floor center		8,640	C.K
Floor southwest		6,480	N.D.
Floor south center		10,800	N.D.
Floor southeast	•	8,640	N.D.
	•	0,040	-:

Location	Preliminary Readings Direct Wipe	Firz <u>Readi:</u> Direct	
			*******
Electronic Office and Supply		0.10	
Window sill Floor northeast	•	2,160	N.D.
Floor northwest		6,480	N.D.
Floor center		10,800	N.D.
Floor center		10,800	N.D.
Floor center		8,460	N.D.
Floor southwest		6,480	N.D.
Floor southwest		11,780	N.D. N.D.
Wall north		5,400 0	N.D.
Wall east		0	N.D.
Wall south		0	N.D.
Wall west		Ő	N.D.
		_	
Rest Room off of Electronic Room			
Wall north		0	N.D.
Wall west		0	N.D.
Wall south		0	N.D.
Door		0	N.D.
Floor west		12,800	N.D.
Floor east		10,800	N.D.
Lavatory Room			
Wall north		0	N.D.
Wall west		0	N.D.
Wall south		Ö	N.D.
Floor northeast		4,320	N.D.
Floor center		6,480	N.D.
Floor center		7,560	N.D.
Lavatory		0	N.D.
First Aid Room			
East window sill	•	10,800	N.D.
North window sill		21,600	N.D.
Lavatory		8,640	N.D.
East side of cabinet (shelves)		6,480	N:D.
West side of cabinet (shelves)		8,640	N.D.
Top of cabinet	•	10,800	N.D.
Floor northeast		5,400	N.D.
Floor northwest		5,400	N.D.
Floor southeast	•	10,800	N.D.
Floor southwest		12,860	N.D.
Wall north		Ö	N.D.
Wall east Wall scuth		0	N.D.
Wall west		. 0	N.D.
HULL HOUS		0	N.D.

	Preliminary	Fin	
	Readings	Readi	
Location	Direct Wipe	Direct	Wipe
Property Office	·		
Window sill		8,640	N.D.
Radiator		12,860	N.D.
Wall north		0	N.D.
Wall east		0	N.D.
Wall south		0	N.D.
Wall west		0	N.D.
Floor northeast		3,240	N.D.
Floor northwest		10,800	N.D.
Floor center		6,480	N.D.
Floor center		7,560	N.D.
Floor center		10,800	N.D.
Floor southeast		3,240	N.D.
Floor southwest	•	4,320	N.D.
Hot Lounge		-	
Window sill		10,800	N.D.
Radiator		18,360	N.D.
Wall north		0	N.D.
Wall south		0	N.D.
Wall east		0	N.D.
Wall west		0	N.D.
Floor northeast		28,100	N.D.
Floor northwest		25,920	N.D.
Floor center		21,600	N.D.
Floor center		24,840	N.D.
Floor center	•	24,840	N.D.
Floor southeast		23,760	N.D.
Floor southwest		20,520	N.D.
Shower Room off of Hot Lounge			
Floor west		28,100	N.D.
Floor east		24,840	N.D.
Floor north		21,600	N.D.
Lavatory		9,720	N.D.
Window sill		5,400	N.D.
Wall north		0	N.D.
Wall east	_	Ö	N.D.
Wall west		. 0	N.D.

	Prelin Read:	minary ings	Fin Readi:	
Location	Direct	Wipe	Direct	Wipe
Operation's Office				
East window sill			5,400	N.D.
South window sill			8,640	N.D.
Radiator North wall			10,800	N.D. N.D.
East wall			0	N.D.
South wall			Ő	N.D.
West wall			ō	N.D.
Floor mortheast			9,720	N.D.
Floor northwest			11,780	N.D.
Floor center			12,860	N.D.
Floor center			12,860	N.D.
Floor center			9,720	N.D.
Floor southwest Floor southeast (steel trap door)			12,860 10,800	N.D. N.D.
ricor southeast (steel trap door)			10,600	N.D.
Middle Section of Auditorium Beam of				
Ceiling Running North and South				
			2,160	N.D.
			3,240	N.D.
			2,160	N.D.
			1,080	N.D.
			2,160	N.D.
			3,500	N.D.
Center Beam Running East and West				
			1,080	N.D.
•			2,160	N.D.
			1,080	N.D.
			3,240	N.D.
Cold I mago				
Cold Lounge Floor southwest			2 2/0	N.D.
Floor south center			3,240 4,320	N.D.
Floor southeast			6,480	N.D.
Floor southeast center			14,040	N.D.
Floor center	60,000	N.D.	9,720	N.D.
Floor northwest center			11,880	N.D.
Floor center	100,000	1,000	21,600	N.D.
Floor northeast center	(0.000	<b>37</b> -	12,960	N.D.
Floor center	60,000	N.D.	7,560	N.D.
Floor north center (by door) Floor northwest	200,000	1,500	8,640 6,480	N.D.
T TOOL INT THUOD C			0,400	N.D.

	Preliminary	Fin	al
	Readings	Readi	ngs
Location	Direct Wipe	Direct	Wipe
Cold Lounge			
Northwest radiator		20,520	N.D.
Southwest radiator		23,760	N.D.
Ledge around wall	•	4,320	N.D.
Mantle over fireplace		37,700	N.D.
Side of mantle		•	
Tile in front of fireplace		4,320	N.D.
Wall north		24,840	N.D.
Wall east		0	N.D.
Wall south		0	N.D.
Wall West		0	N.D.
Wall West		0	N.D.
Kitchen off of Cold Lounge			
Floor southeast		16,200	N.D.
Floor southwest (by door)		23,760	N.D.
Floor center		22,680	N.D.
Floor center		19,440	N.D.
Floor northeast		21,600	N.D.
Floor northwest		14,040	N.D.
Overhead cabinet	•	8,640	N.D.
Wall north		0	N.D.
Wall east	•	· ő	N.D.
Wall south		ő	N.D.
Wall west		ő	N.D.
			H .D.
Landing Outside of Cold Lounge			
Floor southeast		6,480	N.D.
Floor southwest	•	3,240	N.D.
Floor center		21,600	N.D.
Floor center		19,440	N.D.
Steps down to 2nd landing		12,960	N.D.
Second landing		24,840	N.D.
Steps down to 3rd landing		9,720	N.D.
Third landing		20,520	N.D.
Steps down to concrete floor		23,760	N.D.
Bannister		28,080	N.D.
Window sill by 2nd landing		10,800	N.D.
Walls		0	N.D.

	Prelimi Readir		Fin Readi:	
Location	Direct	Wipe	Direct	eqiW
Hallway off of Room above Squash Court				
Floor southeast			23,760	N.D.
Floor east center by door of auditorium			43,100	N.D.
Floor northeast			32,300	N.D.
Floor center		•	37,700	N.D.
Floor center			32,300	N.D.
Floor southwest			21,840	N.D.
Floor northwest			27,000	N.D.
Wall north			0	N.D.
Wall east			Ō	N.D.
Wall south			Ö	N.D.
Wall west			Ŏ	N.D.
Lavatory			33,540	N.D.
Drinking fountain			23,760	N.D.
Step down to squash court			14,040	N.D.
Step down to squash court			19,440	N.D.
			_,,,,-	
Ladies Change Room			•	•
Floor southwest			19,440	N.D.
Floor west center			23,760	N.D.
Floor northwest		•	27,000	N.D.
Floor south center			20,520	N.D.
Floor center			21,600	N.D.
Floor north center			16,200	N.D.
Floor in front of shower cabinets			32,300	N.D.
Floor in front of shower cabinets			23,760	N.D.
Floor southeast			22,680	N.D.
Floor northeast			32,300	N.D.
North shower cabinet floor			30,240	N.D.
North shower cabinet walk			3,240	N.D.
South shower cabinet floor			32,300	N.D.
South shower cabinet walk			4,320	N.D.
Window sill (north wall)			17,280	N.D.
Radiator west			6,480	N.D.
Radiator center			16,200	N.D.
Radiator east			12,960	N.D.
Wall north			0	N.D.
Wall east		•	0	N.D.
Wall south			0	N.D.
Wall west			. 0	N.D.
			-	

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# UNCLASSIFIED

	Prelimi	lrary	Fin	al
	Readin	ngs	Readi	ngs
Location	Direct	Wipe	Direct	Wipe
Page 1 0001 1111 1 1 1 1 1 1 1 1 1 1 1 1 1				
Property Office Adjoining Manager's Office			/	
Floor northeast (by door)			22,680	N.D.
Floor north center			34,460	N.D.
Floor northwest			37,700	N.D.
Floor southwest center			23,760	N.D.
Floor center			22,680	N.D.
Floor southeast center			19,440	N.D.
Floor center			17,280	N.D.
Floor southeast			24,840	N.D.
Floor south center			43,100	N.D.
Floor southwest			<i>3</i> 4,460	N.D.
Radiator			6,480	N.D.
Window sills (north) wall			4,320	N.D.
Wall north			. 0	N.D.
Wall east			0	N.D.
Wall south			0	N.D.
Wall west			0	N.D.
Marager's Inner Office				
Floor northeast			/ 200	37 50
Floor north center			4,320	N.D.
Floor northwest			6,480	N.D.
Floor center			6,480	N.D.
Floor center			3,240	N.D.
Floor southwest			10,800	N.D.
Floor south center			6,480	N.D.
Floor southeast			7,560	N.D.
Radiator			8,640	N.D.
Window sill (north wall)			10,800	N.D.
Wall north			6,480	N.D.
Wall east		•	0	N.D.
Wall south			0	N.D.
Wall west			0	N.D.
Hall wost			0	N.D.
Manager's Outer Office		•		
Floor southwest			22,680	N.D.
Floor south center			19,440	N.D.
Floor west center			14,040	N.D.
Floor center			16,200	N.D.
Floor east center			12,960	N.D.
Floor northeast			14,040	N.D.
Floor north center (by door)			11,880	N.D.
Floor northwest			6,480	N.D.
Ledge on south wall (west)		•	34,4 <del>5</del> 0	N.D.
Ledge on south wall (center)	,		12,960	N.D.
Ledge on south wall (east)			16,200	N.D.
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# 4 UNCLASSIFIED

	Preliminary	Fin	
Logetion	Readings	Readi	
Location	<u>Direct</u> <u>Wipe</u>	Direct	Wipe
Manager's Outer Office			
East window sill		8,640	N.D.
Radiator		14,040	N.D.
Wall north		0	N.D.
Wall east		0	N.D.
Wall south (glass)		0	N.D.
Wall west		0	N.D.
Telephone Exchange Room			
Floor northwest		14,040	N.D.
Floor center		16,200	N.D.
Floor center		12,960	N.D.
Floor southeast		11,880	N.D.
Floor southwest		10,800	N.D.
Radiator		4,320	N.D.
Window sill		12,960	N.D.
Wall north		0	N.D.
Wall east		Ö	N.D.
Wall south		Ö	N.D.
Wall west		Ö	N.D.
•			
Vestibule and Steps			
Floor northeast		8,640	N.D.
Floor northwest		10,800	N.D.
Floor center		8,640	N.D.
Floor center		10,800	N.D.
Floor southeast		11,880	N.D.
Floor southwest		16,200	N.D.
Wall north (door)		0	N.D.
Wall east		0	N.D.
Wall south		0	N.D.
Wall west	•	0	N.D.
Window sill (east wall)	•	12,960	N.D.
First 5 steps down from vestibule		12,960	N.D.
Second 5 steps down from vestibule		8,640	N.D.
Third 5 steps down from vestibule		16,200	N.D.
Bannister		16,200	N.D.
Hallway Outside Counting Room	•		
Floor north		10,800	N.D.
Floor center		12,960	N.D.
Floor southeast		14,040	N.D.
Floor southwest		19,440	N.D.
Radiator		32,300	N.D.
Lavatory		30,240	N.D.

	Preliminary	Final	
	Readings	Readi	ngs
Location	Direct Wipe	Direct	Wipe
•	,		
Design Laboratory			
Floor northeast		5,400	N.D.
Floor north center		23,760	N.D.
Floor northwest		37,800	N.D.
Floor center	70,000 3,000	45,360	N.D.
Floor center		16,200	N.D.
Floor center		21,600	N.D.
Floor southeast		24,840	N.D.
Floor south center		26,000	N.D.
Floor southwest		32,400	N.D.
Window sill south		12,960	N.D.
Window sill west		8,640	N.D.
Wall north		10,800	N.D.
Wall east		12,960	N.D.
Wall south		8,640	N.D.
Wall west		10,800	N.D.
Boiler Room			
Floor northeast corner		21,600	N.D.
Floor north center		3,240	N.D.
Floor north center of floor		16,200	N.D.
Floor northwest corner		6,480	N.D.
Floor center		35,660	N.D.
Floor center		5,400	N.D.
Floor center		15,020	N.D.
Floor southeast corner		32,420	N.D.
Floor south center		24,840	N.D.
Floor southwest corner		18,360	N.D.
Metal step leading to boiler room		2,160	N.D.
Metal step leading to boiler room		3,240	N.D.
Metal step leading to boiler room		0	N.D.
Metal step leading to boiler room		2,160	N.D.
Metal step leading to boiler room		4,320	N.D.
Coal hopper		2,160	N.D.
Coal hopper		0	N.D.
Coal hopper		3,240	N.D.
Coal hopper		4,320	N.D.
Boiler and pipework		2,160	N.D.
Boiler and pipework		0	N.D.
Boiler and pipework		3,240	N.D.
Boiler and pipework		5,400	N.D.
Boiler and pipework		2,160	N.D.
Boiler and pipework	·	2,100	N.D.
Boiler and pipework		3,240	N.D.
Boiler and pipework		6,480	N.D.
Boiler and pipework		3,240	N.D.
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#### UNCLASSIFIED

	Prelimitary	Fire	
Location	Readings Direct Wipe	Readi:	ngs Wipe
<u> </u>	DITOCC WIDO	Dilect	arba
Coal Bin (Room adjoining Boiler Room)			
Floor		2,160	N.D.
Floor		3,240	N.D.
Floor		0	N.D.
Floor	•	2,160	N.D.
Wall east		. 0	N.D.
Wall south		0	N.D.
Wall west		0	N.D.
Storage Room Adjoining Boiler Room			
Floor northeast		5,400	N.D.
Floor north center		6,480	N.D.
Floor northwest		8,640	N.D.
Floor center		4,320	N.D.
Floor center		3,240	N.D.
Floor southeast		6,480	N.D.
Floor southwest		10,800	N.D.
Wall north		0	N.D.
Wall east		Ŏ	N.D.
Wall south		Ö	N.D.
Wall west		ŏ	N.D.
South Tunnel			
South wall		32,420	N.D.
South wall		9,720	N.D.
South wall		8,640	N.D.
South wall		6,840	N.D.
North wall		24,840	N.D.
North wall		<b>27,</b> 020	N.D.
North wall		10,800	N.D.
North wall	•	30,260	${\tt N.D.}$
North wall		9,720	N.D.
Pipe work		8,640	N.D.
Pipe work		6,480	N.D.
Pipe work		3,240	N.D.
Pipe work		7,560	N.D.
Pipe work		10,800	N.D.
North Tunnel			
South wall		6,480	N.D.
South wall		8,640	N.D.
South wall		10,800	N.D.
South wall		11,780	N.D.
South wall	•	6,480	N.D.
•			

	Preliminary Readings	Fin Readi	
Location	Direct Wipe	Direct	Wipe
North Tunnel North wall		0 (10	
North wall		8,640	N.D.
North wall		3,240 10,800	N.D. N.D.
North wall		6,840	N.D.
North wall		4,320	N.D.
North wall		8,640	N.D.
Pipe work		6,480	N.D.
Pipe work		10,800	N.D.
Pipe work		12,860	N.D.
Pipe work		11,780	N.D.
Pipe work		8,640	N.D.
Pipe work		6,480	N.D.
Hanan Charakawa			
Worth greenhouse floor northeast (dirt)		710	W D .
Floor northwest (dirt)		740	N.D.
Floor center (dirt)		<i>3</i> 70 0	N.D. N.D.
Floor center (dirt)		0	N.D.
Floor southeast (dirt)		0	N.D.
Floor southwest (dirt)		555	N.D.
Wall north		Ó	N.D.
Wall east		Ö	N.D.
Wall south		Ō	N.D.
Wall west		0	N.D.
Steam pipe	•	555	N.D.
Center Greenhouse	•		
Northeast floor (concrete)		1,110	N.D.
North center floor (concrete)		1,480	N.D.
Northwest floor (concrete)		555	N.D.
Southeast floor (dirt)		370	N.D.
Southwest floor (dirt)		370	N.D.
Wall north		0	N.D.
Wall west		0	N.D.
Wall east		0	N.D.
Bench on south side		• 0	N.D.
South Greenhouse			
East floor (dirt)		370	N.D.
Center floor (dirt)		555	N.D.
West floor (dirt)		0	N.D.
North bench east end		370	N.D.
North bench west end		0	N.D.
South bench east end		0	N.D.
South bench west end		O	N.D.
West wall		0	N.D.

To a state of	Prelimi Readin	gs	Fin Readi	ngs
Location	Direct	Wipe	Direct	Wipe
Shower Room off of Property Office				
Floor northeast			5,550	N.D.
Floor center			7,400	N.D.
Floor northwest			3,700	N.D.
Shower cabinet floor			2,405	N.D.
Shower cabinet walk			555	N.D.
North wall of Lavatory Room			0	N.D.
East wall of Lavatory Room			0	N.D.
South wall of Lavatory Room			0	N.D.
West wall of Lavatory Room			0	N.D.
Storage Vault (Northwest corner outside)				
Floor southeast			18,500	N.D.
Floor northeast			14,800	
Floor morthwest			10,300	N.D.
Floor southwest			10,300	N.D.
Floor center			12,950	N.D.
North wall			0	N.D.
East wall			Ō	N.D.
West wall			Ō	N.D.
North outside wall			Ō	N.D.
East outside wall			Ō	N.D.
West cutside wall			Ö	N.D.
Top			Ö	N.D.
Dust Poor over Squash Count				
Duct Room over Squash Court Floor northeast			7.400	17 D
			14,800	N.D.
Floor north center			16,650	N.D.
Floor morthwest			11,100	N.D.
Floor northeast center			7,400	N.D.
Floor southeast center Floor center			3,700	N.D.
			3,700	и.р.
Floor center			7,400	N.D.
Floor center			9,250	N.D.
Floor southeast			5,550	N.D.
Floor scuth center			11,100	N.D.
Floor southwest			3,700	N.D.
Wall north	•		0	N.D.
Wall east			0	N.D.
Wall south			0	N.D.
Wall west			0	N.D.
Window sill southwest			3,700	N.D.
Window sill west center			5,550	N.D.
Window sill northwest			3,700	N.D.
Radiator by west wall			9,250	N.D.
Radiator by east wall			7,400	N.D.

	Preliminary	Final
•	Readings	Readings
Location	Direct Wipe	Direct Wipe
East Half of South Greenhouse		
Northeast	92,800 2,220	Removed
Northeast center	255,200 2,405	Removed
North center	174,000 2,220	Removed
Northwest center	116,000 2,220	Removed
Northwest	<b>348,000</b> 2,775	Removed
West center of walkway	1,000,000 3,700	Removed
West center of walkway	2,000,000 3,700	Removed
Center of walkway	<b>3,000,000 5,250</b>	Removed
East center of walkway	500,000 20,000	Removed
East center of walkway	1,000,000 30,000	Removed
Southeast of walkway	<b>&gt;</b> 5,000,000 50,000	Removed
Southeast center	1,000,000 40,000	Removed
Conter	2,000,000 30,000	Removed
Southwest center	1,000,000 20,000	Removed
Southwest	500,000 12,000	Removed
	, ,	
Product Storage off of South Greenhouse	ı	
Floor southeast	232,000 2,775	RevomeR
Floor east center	208,800 1,850	Removed
Floor northeast	139,200 2,405	Removed
Floor center	255,200 2,220	Removed
Floor center	290,000 1,850	Renoved
Floor center	266,800 1,110	Removed
Floor southwest	174,000 740	Removed
Floor west center	290,000 2,220	Removed
Floor northwest	255,200 2,405	Removed
Floor West Section of South Greenhouse	•	200.000
(Pfaudler Storage)		
Floor northeast		23,720 N.D.
Floor north center		12,960 N.D.
Floor northwest		37,800 N.D.
Floor west center		21,600 N.D.
Floor center		11,880 N.D.
Floor southwest		10,800 N.D.
Floor south center		
Floor southeast		12,960 N.D.
		8,640 N.D.
Floor south center		14,040 N.D.
Floor center		24,840 N.D.

	Prelimi	rary	Final	
	Readir	:gs	Readi	ngs
Location	Direct	Wipe	Direct	Wipe
South Greenhouse West Half of	•		·	
Center Section Floor				
Floor northwest	127,600	<i>555</i>	Remov	a 4
Floor northwest center	104,400		Remov	
Floor north center	139,200	1,110 740		
Floor northeast center	•		Remov	
Floor northeast	84,200	740	Remov	
	208,800	555	Remov	
Floor east center of walkway	<b>324,</b> 800	925	Remov	
Floor center of walkway		1,480	Remove	
Floor center of walkway		1,850	Remov	
Floor center of walkway		1,110	Remove	
Floor southwest	255,200	740	Remove	
Floor southwest center	324,800	370	Remove	
Floor south center	406,000	925	Remove	эd
Floor scutheast center	_ 440,800	555	Remove	ed
Floor southeast	324,800	370	vomeñ	εŝ
East Section of South Greenhouse				
Southeast	255 200	ce'e	D	
	255,200	555	Remove	
East center		1,110	Remove	
North east	208,800	925	Remove	
North center	266,800	555	Remove	
Center	290,000	740	Remove	
South center	348,000	740	Remove	
Southwest	127,600	370	Remove	
West center	290,000	925	Remova	
Northwest	348,000	925	Remove	∍d
Glass Roof of South Greenhouse			•	
East end of roof			22,000	N.D.
East end of roof			19,250	N.D.
East end of roof			29,250	N.D.
East end of roof			22,000	N.D.
East end of roof			22,000	11 000
East end of roof	*		32,000	N.D.
Center of roof			•	
Center of roof	•		24,750	N.D.
	EE 000		29,250	N.D.
Center of roof	55,000		16 500	N D
Center of roof	•		16,500	N.D.
Center of roof			17,650	N.D.
West end of roof			3,976	N.D.
West end of roof			2,840	N.D.
West end of roof			726	N.D.
West end of roof			1,704	N.D.
West end of roof			2,272	N.D.
West end of roof			3,408	N.D.
West end of roof			4,260	N.D.
West end of recf			8,250	N.D.
West end of roof UNCLASS	HED .		8,250	N.D.

	Preliminary	Final
Inaction	Readings	Readings
Location	Direct Wipe	Direct Wipe
Window Sill on South Upper		
Side of Auditorium	(0.000	•
East Group of Windows	69,600	Devomen
East Group of Windows	208,000	Removed
East Group of Windows	150,800	Removed
East Group of Windows	82,800	Removed
Center Group of Windows		15,800 N.D.
Center Group of Windows	82,800	Removed
Center Group of Windows	81,200	Removed
Center Group of Windows	81,200	Removed
West Group of Windows	82,800	Removed
West Group of Windows	150,800	Removed
West Group of Windows	104,400	Removed
West Group of Windows	139,200	Removed
		-
South Vertical Wall of Auditorium		
Over Greenhouse (Concrete)		10 850 W D
East end of wall (by precipitron exhaust		13,750 N.D.
East end of wall (by precipitron exhaust		24,750 N.D.
East end of wall (by precipitron exhaust		8,250 N.D.
East end of wall (by precipitron exhaust	)	5,780 N.D.
Center section of wall		2,272 N.D.
Center section of wall		2,272 N.D.
Center section of wall		1,704 N.D.
Center section of wall		2,840 N.D.
West end of wall		2,272 N.D.
West end of wall		2,840 N.D.
West end of wall		3,124 N.D.
West end of wall		3,692 N.D.
West end of wall		2,272 N.D.
WOSE CITY OF WATE		29212 240224
Roof of Acid Storage House		•
North center section of roof		32,420 N.D.
Northwest section of roof	•	29,180 N.D.
Center section of roof		24,840 N.D.
Center section of roof		19,440 N.D.
Center section of roof		27,020 N.D.
Center section of roof		18,360 N.D.
Scutheast section of roof		36,740 N.D.
South center section of roof		24,840 N.D.
Southwest section of roof		17,280 N.D.
Portiliant poolities of 1001		ولاه المال المال المال
Wire Mesh over Upper Part of Glass Roof	•	
over South Greenhouse		
Glass reef over scuth greenhouse		22,000 N.D.
Glass roof over scuth greenhouse		19,250 N.D.
Glass roof over south greenhouse		29,250 N.D.
Glass roof over south greenhouse		35,750 N.D.
Glass roof over south greenhouse		16,500 N.D.
IINO ACCITI	Th L	•

	Prelimi	rary	Fin	al	
	Readin	gs	Readings		
Location	Direct	Wipe	Direct	Wipa	
	<del></del>				
South Cutside and Wall Inside Greenhouse					
East section of south wall			8,250	N.D.	
East section of south wall			16,500	N.D.	
East section of south wall			27,500	N.D.	
East section of south wall			33,000	N.D.	
Center section of south wall			20,050	N.D.	
Center section of south wall					
Center section of south wall			19,250	N.D.	
Center section of south wall			18,250		
			20,050		
Center section of south wall			8,250	N.D.	
West section of south wall		•	5,500	N.D.	
West section of south wall			3,408	N.D.	
West section of south wall			2,840	N.D.	
West section of south wall			5,680	N.D.	
West section of south wall			4,260	N.D.	
	•		-,,		
West Outside Wall of Cold Lounge				-	
West outside wall of cold lounge	*		0	N.D.	
West outside wall of cold lounge			Õ	N.D.	
West cutside wall of cold lourge			ő	N.D.	
West outside wall of cold lounge			0	N.D.	
West outside wall of cold lounge			0		
mest odibide wall of cold lounge			U	N.D.	
North Outside Wall of Women's Locker Room					
North outside wall of women's looker room	<b>G</b>		0	N.D.	
North cutside wall of women's locker room			0	N.D.	
North outside wall of women's looker room			ŏ	N.D.	
North outside wall of women's looker room			ő	N.D.	
North outside wall of women's looker room			. 0	N.D.	
NOTON OCUSICO WANT OF WOMEN & TOTRES ACON	D.		9	14 070 0	
West Cutside Wall of Telephone Room					
West cutside wall of Telephone Room			0	N.D.	
West outside wall of Telephone Room			0	N.D.	
West outside wall of Telephone Room			- 0	N.D.	
Read Offering Mari of Tarabitors Moom				ه لوه اه	
North Cutside Wall of Telephone Room				•	
North outside wall of Telephone Room			0	N.D.	
North outside wall of Telephone Room			Ö		
North cutside wall of Telephone Room			Ö	N.D.	
North cutside wall of Telephone Room		•	0	N.D.	
Wolen offered watt of latabunda Woom			J	ກຸວວິເ	
East Outside Wall of Telephone Room	•				
East outside wall of Telephone Room			0	N.D.	
			~	A 60 0	

	Preliminary Readings	Fin Readi:	
Location	Direct Wipe	Direct	Wipe
Roof over Ladies Locker Room			
West section of roof		8,250	N.D.
West section of roof		11,000	N.D.
West section of roof		22,000	
West section of roof	•	8,250	N.D.
Center section of roof		5,500	N.D.
Center section of roof		5,496	N.D.
Center section of roof		5,500	N.D.
East section of roof		5,500	N.D.
East section of roof		5,212	N.D.
East section of roof	,	-	N.D.
East section of roof		2,556	
Roof over Cold Lounge		4,260	N.D.
Roof over Cold Lounge		4,260	N.D.
Roof over Cold Lounge		1,704	N.D.
Roof over Cold Lounge		2,272	N.D.
<u> </u>		2,840	N.D.
Roof over Cold Lounge		2,840	N.D.
Sides of chimney from fireplace		0	N.D.
Sides of chimney from fireplace	•	Ō	N.D.
Sides of chimney from fireplace		0	N.D.
Sides of chimney from fireplace		0	N.D.
Sides of chimney from fireplace		0	N.D.
Roof over Telephone Room and vestibule		0	N.D.
Roof over Telephone Room and vestibule	•	0	N.D.
Roof over Telephone Room and vestibule	•	0	N.D.
Roof over Telephone Room and vestibule		0	N.D.
Roof over Telephone Room and vestibule		. 0	N.D.
Railing around roof of Telephone Room and		0	N.D.
Railing around roof of Telephone Room and	l vestibule	0	N.D.
Railing around roof of Telephone Room and	l vestibule	0	N.D.
Railing around roof of Telephone Room and	l vestibule	. 0	N.D.
Spouting around roof of Telephone Room		5,680	N.D.
Spouting around roof of Telephone Room		4,260	N.D.
Spouting around roof of Telephone Room		2,272	N.D.
Spouting around roof of Telephone Room		3,408	N.D.
Copper Sheeting of Roof over Auditorium Pro	per		•
West section of roof	·	1,420	N.D.
West section of roof		2,556	N.D.
West section of roof		1,988	N.D.
West section of roof		2,840	N:D.
West section of roof		3,124	N.D.

Location	Prelim Readi: Direct	•	Fir Readi Direct	
		<del></del>		
Copper Sheeting of Roof over Auditorium Pro	req			
West center section of roof			5,112	N.D.
West center section of roof			3,408	N.D.
West center section of roof			3,692	N.D.
West center section of roof			3,124	N.D.
Center section of roof			1,988	
Center section of roof			5,112	N.D.
Center section of roof			2,556	N.D.
Center section of roof			1,988	N.D.
Urine Collection Room in Old Changehouse				
Floor mortheast			5,400	N.D.
Floor northwest			6,480	N.D.
Floor southeast			10,800	N.D.
Floor southwest			10,800	N.D.
Wall north			0	N.D.
Wall east			ŏ	N.D.
Wall south			ŏ	N.D.
Wall west			ŏ	N.D.
Urine trough			3,240	N.D.
			7,240	1-10.
Locker Room over Garage				
Floor northeast			21,600	N.D.
Floor north center			20,520	N.D.
Floor northwest	60,000	N.D.	30,260	N.D.
Floor center			27,020	N.D.
Floor center	60,000	500	19,440	N.D.
Floor center			16,200	N.D.
Floor center			13,940	N.D.
Floor southwest			10,800	N.D.
Floor south center			21,600	
Floor southeast			32,420	N.D.
Wall north			0	N.D.
Wall sast			0	N.D.
Wall south			0	N.D.
Wall west			0	N.D.
Hot side of Change House over Garage				•
Shower cabinet		•	10,800	N.D.
Shower cabinet			13,940	N.D.
Shower cabinet			12,860	N.D.
Shower cabinet			10,800	N.D.
Walkway around shower cabinet			10,800	N.D.
Walkway around shower cabinet			13,940	N.D.
Walkway around shower cabinet		•	12,860	N.D.
Walkway around shower cabinet			12,860	N.D.

	Preliminary		Fin	
	Readi	ngs	Readi	ngs
Location	Direct	Wipe	Direct	Wipe
,		<del></del>		
Hot Side of Change House over Garage				
Washroom				
Floor mortheast			16,200	N.D.
Floor north center			21,600	N.D.
Floor northwest			13,940	N.D.
Floor center			16,200	N.D.
Floor center			15,020	N.D.
Floor center			10,800	N.D.
Floor southeast			16,200	N.D.
Floor south center			17,280	N.D.
Floor southwest			10,800	N.D.
Wall north			0	N.D.
Wall east			0	N.D.
Wall south			0	N.D.
Wall west			0	
Wash basin (trough on east side)			4,320	
Wash basin (trough on south side)			3,240	N.D.
Roof of Garage	~ \		400	
North side east end (sloping part of root	r)		600	N.D.
North side center (sloping part of roof)			400	N.D.
North side center (sloping part of roof)			0	N.D.
North side center (sloping part of roof)	6 <b>1</b>		600	N.D.
North side west end (sloping part of root			0	N.D.
North side (tin over windows flat part of			6,300	N.D.
North side (tin over windows flat part of			4,200	N.D.
North side (tin over windows flat part of			5,000	N.D.
North side (tin over windows flat part of			4,200	N.D.
North side (tin over windows flat part of	r roor)		6,300	N.D.
West side of roof (sloping part of roof)			1,200	N.D.
West side of roof (sloping part of roof)			1,600	N.D.
West side of roof (sloping part of roof)			1,400	N.D.
West side of rcof (sloping part of roof)			600	N.D.
Boof of Camara			*	
Roof of Garage South side of roof (sloping part of roof)	`		800	N.D.
South side west end (sloping part of root			600	N.D.
South side west and (sloping part of roof)	<b>L</b> )		400	N.D.
South side center (sloping part of roof)			400	N.D.
South side center (sloping part of roof)			800	N.D.
South side east end (sleping part of record	r١		600	N.D.
East side (sloping part of roof)	. /		600	N.D.
East side (sloping part of roof)			400	N.D.
East side (sloping part of roof)			400	N.D.
East side (sloping part of roof)			800	N.D.
East side (sloping part of roof)			600	N.D.
man name (nambara has a or some)				_ · • • • •

	Preliminary		Final	
	Readi	ngs	Readi	ngs
Location	Direct	Wipe	Direct	Wipe
Roof over Guards Locker Room and Tool Room	m			
Northeast part of roof	<del></del>		4,200	N.D.
North center of roof			3,200	N.D.
North center of roof			3,800	N.D.
Northwest of roof			2,800	N.D.
Center of roof			8,400	N.D.
Center of roof			6,300	N.D.
Center of roof			5,000	N.D.
Center of roof			8,400	N.D.
Southwest of roof			6,300	N.D.
South center of roof			5,000	N.D.
Southeast of roof			8,400	N.D.
Roof over Hot Storage				
Northeast part of roof			5,000	N.D.
Northwest part of roof		•	8,400	N.D.
Center part of roof			8,400	N.D.
Center part of roof			12,600	N.D.
Center part of roof			8,400	N.D.
Southeast part of roof			10,500	N.D.
South center part of roof			6,300	N.D.
Southwest part of roof			8,400	N.D.
Hot Storage Room				
Floor northeast (dirt floor)			27,020	N.D.
Floor north center (dirt floor)			30,260	N.D.
Floor northwest (dirt floor)			21,600	N.D.
Floor center (dirt floor)	. •		11,780	N.D.
Floor center (dirt floor)			13,940	N.D.
Floor center (dirt floor)			16,200	N.D.
Floor southeast (dirt floor)			23,760	N.D.
Floor south center (dirt floor)			10,800	N.D.
Floor southwest (dirt floor)			15,020	N.D.
Ledge around east and south walls			19,440	N.D.
Ledge around east and south walls			17,280	N.D.
Ledge around east and south walls			27,020	N.D.
Ledge around east and south walls			16,200	N.D.
South wall			12,860	N.D.
West wall			6,480	N.D.
North wall			3,240	N.D.
East wall			6,480	N.D.

	Prelim Readi	•	Fira Readi:	
Location	Direct	Wipe	Direct	eqiW
Guards Locker Room				
Floor northeast			7,560	N.D.
Floor morth center			5,400	N.D.
Floor northwest	100,000	500	11,780	N.D.
Floor center			3,240	N.D.
Floor center			4,320	N.D.
Floor center	100,000	500	10,800	N.D.
Floor southeast			8,640	N.D.
Floor south center			6,480	N.D.
Floor south west	100,000	500	11,780	N.D.
Wall south			2,160	N.D.
Wall west			3,240	
Wall north			0	N.D.
Wall east			0	N.D.
Lavatory	•		8,640	N.D.
Overheaf pipe work			16,200	N.D.
m a n All today Guarda Tanlam Dami				
Tool Room Adjoining Guards Locker Room Floor northeast	100,000	500	26 770	N D
	100,000	700	36,740	N.D.
Floor north senter			32,420	ж.Э.
Floor senter			30,2 <del>6</del> 0	N.D.
Floor northwest	300 000	7 000	23,760	N.D.
Floor center	100,000	1,000	27,020	N.D.
Floor center			24,840	N.D.
Floor southwest			28,100	N.D.
Floor south center			23,760	N.D.
Floor southeast			25,100	и.э.
Cabinet top (by morth wall)			17,280	N.D.
Cabinet top shelf			23,760	N.D.
Cabinat bottom shelf			13,940	N.D.
Cabinet top (by south wall)			10,800	N.D.
Cabinet top shelf			17,280	N.D.
Cabinet middle shelf			23,760	N.D.
Cabinet bottom shelf			30,260	N.D.
Wall west			3,240	
Wall south			O .	N.D.
Wall north			0	N.D.
Wall east			0	N.D.
Trash House				
Floor mortheast	•		3,000	N.D.
Floor north center			2,600	N.D.
Floor southwest			4,200	F.D.
Floor center			4,200 6,300	N.D.
Floor center			8,400	N.D.
Floor center			3,000 3,000	N.D.
Floor southeast			2,000	N.D.
Floom south center	•		2,600	
Floor southwest IMP ACCIT	מדון		2,800	N.D.
Floor southwest UNCLASSIF	'ILU		000 م	** 0 10 0

		Preliminary		Final	
		Read	ings	Readi	ngs
Location		Direct	Wipe	Direct	Wips
The ob House					
Trash House				_	
Wall east				0	N.D.
Wall south				0	N.D.
Wall west				0	N.D.
Wall north				0	N.D.
Wall outside north				0	N.D.
Wall outside east				0	N.D.
Wall outside south				0	N.D.
Wall outside west				0	N.D.
Top of building northeast				1,200	N.D.
Top of building north center				1,600	N.D.
Top of building northwest				2,000	N.D.
Top of building center				400	N.D.
Top of building center				4,200	N.D.
Top of building center	•	-		3,000	N.D.
Tcp of building southeast				2,600	N.D.
Top of building south center				2,000	N.D.
Top of building southwest				4,200	N.D.
Carpenter Shop (old Garage)					
Floor northeast			•	4,200	N.D.
Floor north center		75,000	N.D.	6,300	N.D.
Floor morthwest		, , , , , , ,		4,200	N.D.
Floor center		100,000	800	6,200	N.D.
Floor center				6,200	N.D.
Floor center				10,500	N.D.
Floor center		200,000	1,000	3,400	N.D.
Floor center		200,000	2,000	3,200	N.D.
Floor southwest				8,200	N.D.
Floor south center (by door)		100,000	500	8,200	N.D.
Floor southeast		100,000	<b>)</b> 00	10,500	N.D.
Wall north	•			0,500	N.D.
Wall east				õ	N.D.
Wall south				ŏ	N.D.
Wall west				Ö	N.D.
Garage door				4,200	N.D.
Garage door		·		3,400	N.D.
				∞400	49 0 200

	Prelin Readi	ninary	Fin Readi	
Location	Direct	Wipe	Direct	eqiW
Mainterance Shop				
Floor northeast			3,000	N.D.
Floor north center			3,600	N.D.
Floor northwest	150,000	500	6,300	N.D.
Floor center	150,000	500	16,800	N.D.
Ficor center			25,200	N.D.
Floor center			12,600	N.D.
Floor center			25,200	N.D.
Floor southeast			8,400	N.D.
Floor south center (by door)	200,000	2,000	14,700	N.D.
Floor southwest	•	-	16,800	N.D.
Wall north			0	N.D.
Wall east			0	N.D.
Wall south			0	N.D.
Wall west			0	N.D.
Door		4	6,300	N.D.
Auditorium Floor				
5 feet from north wall				
East			27,000	N.D.
East center			37,800	N.D.
Center			12,324	N.D.
West center			16,432	N.D.
West			10,270	N.D.
15 feet from north wall			10,270	17050
West			24,648	N.D.
West center			16,432	N.D.
Center			12,324	N.D.
East center			10,270	N.D.
East			8,216	N.D.
30 feet from north wall			0,210	و لمده ۱۸
East			16,432	N.D.
East center			-	
Center			20,540 <b>30</b> ,810	N.D. N.D.
West center			36,972	
West			26,702	N.D.
15 feet from south wall			20, 102	N.D.
West			17 600	3.7 Th
West center			14,800	N.D.
Center			20,350	N.D.
East center			18,500	N.D.
East			28,756	N.D.
5 feet from south wall			30,810	N.D.
East			מנס מנ	FT TO
East center			30,810	N.D.
Carter			36,972	N.D.
West center			<i>3</i> 3,300	E.D.
West			18,500	N.D.
UNCI ASSIR	irn .		12,950	N.D.
LINI AND	'   P'			

	Preliminary	Fin	
Location	Readings	Readi	
DC20101:	Direct Wipe	Direct	Wipe
Auditorium Floor			
5 feet from north wall			
East		10,270	N.D.
East center		12,324	N.D.
Center		8,216	N.D.
West center		6,162	N.D.
West		8,216	N.D.
15 feet from north wall			
West		6,162	N.D.
West center		6,162	N.D.
Center		8,216	N.D.
East center		6,162	
East	•	8,216	N.D.
30 feet from north wall East		7 / 670	
East center		14,378	N.D.
Center		12,324	N.D.
West center		12,324	N.D.
West		12,324	N.D.
15 feet from south wall	•	8,216	N.D.
West		6,162	M D
West center		8,216	N.D. N.D.
Center		36,972	
East center		30,810	
East		36,972	N.D.
5 feet from south well		20,712	11121
East		34,918	N.D.
East center		24,648	
Center		30,810	
West center		26,702	N.D.
West.		<i>3</i> 0,810	N.D.
		•	
Wall Irsulation		<del></del>	
East end of south wall in Auditorium - 4		14,000	N.D.
East and of south wall in Auditorium - 4		10,000	N.D.
East end of south wall in Auditorium - 4 East end of south wall in Auditorium - 6		30,000	
East end of south wall in Auditorium - 6		12,000	
East end of south wall in Auditorium - 6		12,000	
East end of south wall in Auditorium - 6		25,000	N.D.
East end of south wall in Auditorium - 6		13,000	N.D.
East end of south wall in Auditorium - 6		10,000	N.D.
East end of south wall in Auditorium - 10		6,000	N.D.
East end of south wall in Auditorium - 10		8,000 10,000	N.D.
East end of south wall in Auditorium - 10		20,000 20,000	N.D.
East end of south wall in Auditorium - 10	ft. from floor	15,000	N.D.
East end of south wall in Auditorium - 10	ft. from floor	2,000	N.D.
East end of south wall in Auditorium - 10		3,000	N.D.
IMOLACCIT	רדו	2,200	<del></del> -
4 UNCLASSIF	CU		
	<del></del>		

		Prelimi	rary	Fin	al
		Readin	igs	Readi	ngs
Location		Direct	Wipe	Direct	Wipe
Wall Insulat	ion				
South wall	east center in Auditorium - 4	ft. from	floor	1,000	N.D.
South wall	. east center in Auditorium - 4	ft. from	floor	1,200	N.D.
South wall	east center in Auditorium - 4	ft. from	floor	800	N.D.
South wall	. east center in Auditorium - 4	ft. from	flcor	1,400	N.D.
South wall	east center in Auditorium - 4	St. from	floer	800	N.D.
South wall	. east center in Auditorium - 4	ft. from	floor	1,000	N.D.
	. east center in Auditorium - 6			2,100	N.D.
South wall	. east center in Auditorium - 6	ft. from	floor	1,500	N.D.
South wall	. east center in Auditorium - 6	ft. from	floor	1,300	N.D.
South wall	. east center in Auditorium - 6	ft. from	floor	2,000	N.D.
South wall	. east center in Auditorium - 6	ft. from	floor	800	N.D.
South wall	. east center in Auditorium - 6	ft. from	floor	1,000	N.D.
South east	center in Auditorium - 10 ft.	from floo	r	2,200	N.D.
South east	center in Auditorium - 10 ft.	from floo	r	2,000	N.D.
South east	center in Auditorium - 10 ft.	from floo	r	3,000	N.D.
South east	center in Auditorium - 10 ft.	from floo	T		N.D.
South east	center in Auditorium - 10 ft.	from floo	r	600	N.D.
Scuth east	center in Auditorium - 10 ft.	from floo	T. C.	500	N.D.
South wall	west center in Auditorium - 4	ft. from	floor	2,000	N.D.
	west center in Auditorium - 4			3,000	H.D.
South wall	west center in Auditorium - 4	ft. from	floor	1,500	N.D.
South wall	west center in Auditorium - 4	ft. from	floor	800	N.D.
South wall	west center in Auditorium - 4	ft. from	floor	1,000	N.D.
South wall	west center in Auditorium - 4	ft. from	floor	6,000	N.D.
South west	center in Auditorium - 6 ft. f	rom floor		600	N.D.
South west	center in Auditorium - 6 ft. f	rom floor		1,000	N.D.
South west	center in Auditorium - 6 ft. f	For floor		1,200	N.D.
	center in Auditorium - 6 ft. 1			800	M.D.
South west	center in Auditorium - 6 ft. f	rom flocr		1,000	N.D.
	center in Auditorium - 6 ft. 3			900	N.D.
	center in Auditorium - 10 ft.			600	N.D.
	center in Auditorium - 10 ft.			1,400	習。こ。
	center in Auditorium - 10 ft.			2,000	H.D.
	center in Auditorium - 10 ft.			1,800	M.D.
South west	center in Auditorium - 10 ft.	from floo		1,600	N.D.
	center in Auditorium - 10 ft.			1,000	N.D.
	west end of Auditorium - 4 ft.			2,000	N.D.
	west end of Auditorium - 4 ft.			2,000	N.D.
	west end of Auditorium - 4 ft.			2,200	N.D.
	west end of Auditorium - 4 ft.			1,600	¥.D.
South wall	west end of Auditorium - 4 ft.	from flo	or or	1,400	$\mathbb{N}_{*}\mathbb{D}_{*}$
	west end of Auditorium - 4 ft.		CT	2,000	
	end of Auditorium - 6 ft. from			1,400	
	end of Auditorium - 6 ft. from			1,600	
	end of Auditorium - 6 ft. from			2,000	
	end of Auditorium - 6 ft. from			1,800	
	end of Auditorium - 6 ft. from			1,600	
bouth west	end of Auditorium - 6 ft, from	ITOOM		1,000	N.D.

	Preliminary	Fin	al
	Readings	Readin	ags
Location	Direct Wipe	Direct	Wipe
		<del></del>	
Wall Insulation			
South wall west end of Auditorium - 10 ft	t. from floor	800	N.D.
South wall west end of Auditorium - 10 ft		1,000	N.D.
South wall west end of Auditorium - 10 ft		1,400	N.D.
South wall west end of Auditorium - 10 ft		600	N.D.
South wall west end of Auditorium - 10 ft		800	N.D.
South wall west end of Auditorium - 10 ft		1,000	N.D.
South end of west wall in Auditorium - 4		400	N.D.
South end of west wall in Auditorium - 4		600	N.D.
South end of west wall in Auditorium - 4			
		600	N.D.
South end of west wall in Auditorium - 4		0	N.D.
South end of west wall in Auditorium - 4		.00	N.D.
South end of west wall in Auditorium - 4		400	N.D.
South end of west wall in Auditorium - 6		400	N.D.
South and of west wall in Auditorium - 6		500	N.D.
South end of west wall in Auditorium - 6		0	N.D.
South and of west wall in Auditorium - 5		800	N.D.
South end of west wall in Auditorium - 6		1,000	N.D.
South and of west wall in Auditorium - 6		400	N.D.
South end of wall (west) in Auditorium -	10 ft. from floor	0	M.D.
South end of wall (west) in Auditorium -	10 ft. from floor	400	N.D.
South end of wall (west) in Auditorium -		600	N.D.
South end of wall (west) in Auditorium -		200	N.D.
South end of wall (west) in Auditorium -		0	N.D.
South end of wall (west) in Auditorium -		600	N.D.
North end of west wall - 4 ft. from floor		1,200	N.D.
North end of west wall - 4 ft. from floor		800	N.D.
North end of west wall - 4 ft. from floor		900	N.D.
North end of west wall - 4 ft. from floor	,	=	N.D.
North end of west wall - 4 ft. from floor		1,400	
		500	N.D.
North and of west wall - 6 ft. from floor		400	N.D.
North end of west wall - 6 ft. from floor		0	N.D.
North end of west wall - 6 ft. from floor		400	ĸ.D.
North end of west wall - 6 ft. from floor		600	N.D.
North end of west wall - 6 ft. from floor		800	N.D.
North end of west wall - 6 ft. from floor		О	N.D.
North end of west wall - 10 ft. from floo		800	N.D.
North end of west wall - 10 ft. from floo		800	N.D.
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North and of west wall - 10 ft. from floo	· ·	600	N.D.
North end of west wall - 10 ft. from floo	T	400	M.D.
West end of north wall - 4 ft. from floor		400	N.D.
West end of north wall - 4 ft. from floor		800	N.D.
West end of morth wall - 4 ft. from floor		1,000	N.D.
West end of north wall - 4 ft. from floor		800	N.D.
West end of north well - 4 ft. from floor		600	N.D.

# **unclassified**

		Prelimi	inary	Fina	al .
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East center north wall in Auditorium - 10 ft. from floor 500 N.D.					
	East center north wall in Auditorium - 10	ft. from	floor	500	N.D.

Preliminary	Fire	al
Readings	Readi	ngs
Location Direct Wipe	Direct	Wipe
Wall Insulation		
East end of north wall in Auditorium - 4 ft. from floor	800	N.D.
East end of north wall in Auditorium - 4 ft. from floor	1,000	N.D.
East end of north wall in Auditorium - 4 ft. from floor	2,000	N.D.
East end of north wall in Auditorium - 4 ft. from floor	2,500	N.D.
East end of north wall in Auditorium - 4 ft. from floor	1,000	N.D.
East end of north wall in Auditorium - 4 ft. from floor	600	N.D.
East end of north wall in Auditorium - 6 ft. from floor	800	N.D.
East end of north wall in Auditorium - 6 ft. from floor	800	N.D.
East end of north wall in Auditorium - 6 ft. from floor	800	N.D.
East end of north wall in Auditorium - 6 ft. from floor	1,000	N.D.
East end of north wall in Auditorium - 6 ft. from floor	1,500	N.D.
East end of north wall in Auditorium - 6 ft. from floor	800	N.D.
East end of north wall in Auditorium - 10 ft. from floor	800	N.D.
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East end of north wall in Auditorium - 10 ft. from floor	600	N.D.
East end of north wall in Auditorium - 10 ft. from floor	400	N.D.
East end of north wall in Auditorium - 10 ft. from floor	400	N.D.
East end of north wall in Auditorium - 10 ft. from floor	800	N.D.
North end of east wall in Auditorium - 4 ft. from floor	400	N.D.
North end of east wall in Auditorium - 4 ft. from floor	800	N.D.
North end of east wall in Auditorium - 4 ft. from floor	2,000	N.D.
North end of east wall in Auditorium - 4 ft. from floor	3,000	N.D.
North end of east wall in Auditorium - 4 ft. from floor	2,500	N.D.
North end of east wall in Auditorium - 4 ft. from floor	400	N.D.
North end of east wall in Auditorium - 6 ft. from floor	600	N.D.
North end of east wall in Auditorium - 6 ft. from floor	400	N.D.
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North end of east wall in Auditorium - 6 ft. from floor	600	N.D.
North end of east wall in Auditorium - 6 ft. from floor	600	N.D.
North end of east wall in Auditorium - 10 ft. from floor	600	N.D.
North end of east wall in Auditorium - 10 ft. from floor	1,000	N.D.
North end of east wall in Auditorium - 10 ft. from floor	1,200	N.D.
North end of east wall in Auditorium - 10 ft. from floor	400	N.D.
North end of east wall in Auditorium - 10 ft. from floor	600	N.D.
North end of east wall in Auditorium - 10 ft. from floor	800	N.D.
	•	
East Side of Auditorium (Outside)		
South end by Boiler Room	568	N.D.
South end by Boiler Room	852	N.D.
South end by Boiler Room	0	N.D.
South and by Boiler Room	1,136	N.D.
South end by Boiler Room	284	N.D.
North end by First Aid Room	852	N.D.
North end by First Aid Room	568	N.D.
North end by First Aid Room	1,136	N.D.
North end by First Aid Room	0	N.D.

Readings   Direct   Wipe   Direct   Wipe
East Side of Auditorium (Outside)  South wall of hot storage (outside)  South wall of Suards Locker Room (outside)  South wall of Guards Locker Room (outside)  South wall of Maintenance Shop (outside)  South wall of Carpenter Shop (outside)
South wall of hot storage (outside)  South wall of Guards Locker Room (outside)  South wall of Maintenance Shop (cutside)  South wall of Maintenance Shop (outside)  South wall of Carpenter Shop (outside)
South wall of hot storage (outside)  South wall of Guards Locker Room (outside)  South wall of Maintenance Shop (cutside)  South wall of Maintenance Shop (outside)  South wall of Carpenter Shop (outside)
South wall of hot storage (outside)  South wall of Guards Locker Room (outside)  South wall of Maintenance Shop (outside)  South wall of Carpenter Shop (outside)
South wall of hot storage (outside)  South wall of Guards Locker Room (outside)  South wall of Maintenance Shop (outside)  South wall of Carpenter Shop (outside)
South wall of hot storage (outside)  South wall of hot storage (outside)  South wall of Guards Locker Room (outside)  South wall of Maintenance Shop (outside)  South wall of Carpenter Shop (outside)
South wall of hot storage (cutside)  South wall of Guards Locker Room (cutside)  South wall of Maintenance Shop (cutside)  South wall of Carpenter Shop (cutside)
South wall of Guards Locker Room (outside)  South wall of Maintenance Shop (outside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.  East wall of Carpenter Shop (outside)
South wall of Guards Locker Room (cutside)  South wall of Guards Locker Room (outside)  South wall of Guards Locker Room (outside)  South wall of Guards Locker Room (outside)  South wall of Maintenance Shop (cutside)  South wall of Maintenance Shop (outside)  South wall of Maintenance Shop (outside)  South wall of Maintenance Shop (cutside)  South wall of Maintenance Shop (cutside)  South wall of Carpenter Shop (cutside)  South wall of Carpenter Shop (cutside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.  East wall of Carpenter Shop (outside)
South wall of Guards Locker Room (outside)  South wall of Guards Locker Room (outside)  South wall of Maintenance Shop (cutside)  South wall of Maintenance Shop (outside)  South wall of Maintenance Shop (cutside)  South wall of Carpenter Shop (cutside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.  East wall of Carpenter Shop (outside)
South wall of Guards Locker Room (outside)  South wall of Maintenance Shop (outside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.  East wall of Carpenter Shop (outside)  O N.D.
South wall of Maintenance Shop (outside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.  East wall of Carpenter Shop (outside)  O N.D.
South wall of Maintenance Shop (outside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.  East wall of Carpenter Shop (outside)  O N.D.
South wall of Maintenance Shop (outside)  South wall of Maintenance Shop (outside)  South wall of Maintenance Shop (cutside)  South wall of Carpenter Shop (cutside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.
South wall of Maintenance Shop (outside)  South wall of Maintenance Shop (cutside)  South wall of Carpenter Shop (cutside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.  Carpenter Shop (outside)  O N.D.
South wall of Maintenance Shop (cutside)  South wall of Carpenter Shop (cutside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.  O N.D.
South wall of Carpenter Shop (cutside)  South wall of Carpenter Shop (outside)  South wall of Carpenter Shop (outside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.
South wall of Carpenter Shop (outside)  South wall of Carpenter Shop (outside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  N.D.
South wall of Carpenter Shop (outside)  South wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.
South wall of Carpenter Shop (outside) 568 N.D.  East wall of Carpenter Shop (outside) 0 N.D.  East wall of Carpenter Shop (outside) 0 N.D.
East wall of Carpenter Shop (outside)  East wall of Carpenter Shop (outside)  O N.D.
East wall of Carpenter Shop (outside) 0 N.D.
Part wall of Companion Chan (autolda)
East wall of Carpenter Shop (outside)  O N.D.
East wall of Carpenter Shop (outside) 0 N.D.  North wall of Old Locker Room (outside) 568 N.D.
· · · · · · · · · · · · · · · · · · ·
North wall of Old Locker Room (outside) 1,136 N.D.
Janitor's Quarters (South Room)
Floor northeast 5,500 N.D.
Floor north center 8,250 N.D.
Floor northwest 8,250 N.D.
Floor center 11,000 N.D.
Floor center 5,500 N.D.
Floor center 11,000 N.D.
Floor southeast 11,000 N.D.
Floor south center 8,250 N.D.
Floor southwest 5,500 N.D.
Wall north 0 N.D.
Wall east 0 N.D.
Wall south 0 N.D.
Wall west O N.D.
Radiator 3,408 N.D.
Window sill east 2,840 N.D.
Window sill south 3,690 N.D.

	Preliminary	Fir	
Location	Readings Direct Wipe	Readi Direct	ngs Wipe
Janitor's Quarters			
Hallway south floor		22,000	N.D.
Hallway center floor		16,500	N.D.
Hallway north floor		13,750	N.D.
Wall west		0	N.D.
Wall east		0	N.D.
Shower Room			
Floor north		16,500	N.D.
Floor south		22,000	N.D.
Lavatory		852	N.D.
East window sill		5,500	N.D.
Shower cabinet		11,000	N.D.
North Room	•		
Floor mortheast		16,500	N.D.
Floor north senter (by door)		22,000	N.D.
Floor northwest		13,750	N.D.
Floor center		16,500	N.D.
Flccr center		16,500	N.D.
Floor center		22,000	N.D.
Floor scutheast		13,750	N.D.
Floor south center		13,750	N.D.
Floor southwest		16,500	N.D.
East window sill		3,692	N.D.
Radiator		3,124	N.D.
North wall		. 0	N.D.
East wall		0	N.D.
South wall		0	N.D.
West wall		0	N.D.
Glass Roof of Auditorium			
Top ridge (horizontal copper surface) we	st	2,272	N.D.
Top ridge (horizontal copper surface) we	st center	2,840	N.D.
Top ridge (horizontal copper surface) we		4,260	N.D.
Top ridge (horizontal copper surface) ce		5,112	N.D.
Top ridge (horizontal copper surface) ea		3,124	
Top ridge (horizontal copper surface) ea	st center ·	5,680	N.D.
Top ridge (by precipitron exhaust) east		13,750	
Top ridge (by precipitron exhaust) east		22,000	
Glass part of roof north side east		0	N.D.
Glass part of roof north side east cente	r	0	N.D.
Glass part of roof north side center		0	N.D.
Glass part of roof north side west cente	r	0	
Glass part of roof north side west		0	N.D.

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### UNCLASSIFIED L

	Prelimi	inary	Fin	21
	Readin	<u>lgs</u>	Readi	ngs
Location	Direct	Wipe	Direct	eqiW
				-
Glass Roof of Auditorium				
Glass part of roof south side east			0	N.D.
Glass part of roof south side east center			0	N.D.
Glass part of roof south side center			0	N.D.
Glass part of roof south side west center			0	N.D.
Glass part of roof south side west			0	N.D.
Lower edge of glass north side			0	N.D.
Lower edge of glass north side			0	N.D.
Lower edge of glass north side			0	N.D.
Lower edge of glass north side			0	N.D.
Eaves trough on north side of roof			8,250	
Eaves trough on north side of recf			8,250	N.D.
Eaves trough on north side of roof			8,250	
Eaves trough on north side of roof			5,500	N.D.
Main Guard House			•	
Floor northeast			16,200	N.D.
Floor north center			12,960	N.D.
Floor northwest			19,440	N.D.
Floor center			17,280	N.D.
Floor center			20,520	N.D.
Floor center			8,640	N.D.
Floor scutheast			12,960	N.D.
Floor south center			16,200	N.D.
Floor southeast			21,600	N.D.
South window sill			12,960	N.D.
East window sill			19,440	N.D.
North window sill			22,680	N.D.
West window sill			14,040	N.D.
North wall			0	N.D.
East wall South wall			0	N.D.
West wall			0	N.D.
Counter			0	N.D.
Outside walls			11,880	N.D.
Top (cutside)			0	N.D.
top (catalde)		•	4,320	N.D.
Couth Guard Haves				
Scuth Guard House			1 303	37 T)
Floor north senter			4,108	N.D.
Floor north senter Floor northwest			12,324	N.D.
Floor center			6,152	N.D.
Floor center			8,216	N.D.
Floor southeast			4,108	N.D.
Floor south center			8,216	N.D.
Floor southwest			6,152	N.D.
TIME SOURINGS!	•		10,270	N.D.

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# UNCLASSIFIED

	Preliminary	Fina	
Location	Readings Direct Wipe	Readi: Direct	wipe
South Guard House			•
East window sill		4,108	N.D.
North window sill		6,152	N.D.
West window sill		4,108	N.D.
South window sill		4,108	N.D.
Locker on south side of room		6,152	N.D.
East wall		0	N.D.
South wall		Ö	N.D.
West wall		Ö	N.D.
North wall		Ö	N.D.
South wall outside		Õ	N.D.
East wall cutside		ŏ	N.D.
North wall outside		ŏ	N.D.
West wall outside		Ö	N.D.
Reef		1,152	N.D.
Roof		4,108	N.D.
		4,200	11 12 1
East Guard House			
Floor morthwest		14,378	N.D.
Floor northeast		16,432	N.D.
Floor scutheast		12,324	N.D.
Floor southwest		16,432	N.D.
East window sill		10,270	N.D.
North window sill		6,162	N.D.
North wall		o o	N.D.
East wall		0	N.D.
West wall		0	N.D.
South wall		0	N.D.
Outside wall		0	N.D.
Rocf		4,108	N.D.
		•	
Guard House			•
Area in front of Guard House		1,600	N.D.
Area in front of Guard House		2,400	N.D.
Area 20 ft. east of north Guard House		2,400	N.D.
Area 20 ft. east of north Guard House		600	N.D.
Area 20 ft. east of north Guard House		800	N.D.
Area 40 ft. east of north Guard House		400	N.D.
Area 40 ft. east of north Guard House		0	N.D.
Area 40 ft. east of north Guard House		0	N.D.
Area 60 ft. east of north Guard House		0	N.D.
Area 60 ft. east of morth Guard House		0	N.D.
Area 60 ft. east of north Guard House		Ō	N.D.
Area 80 ft. east of north Guard House		0	N.D.
Area 80 ft. east of north Guard House		400	
Area 80 ft. east of north Guard House		0	N.D.

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#### UNCLASSIFIED

	Preliminary	Fin	al
	Readings	Readi:	ngs
Location	Direct Wipe	Direct	Wipe
Area 100 ft. east of north Guard House		0	N.D.
Area 100 ft. east of north Guard House		0	N.D.
Area 100 ft. east of north Guard House		0	N.D.
	•		
Area 120 ft. east of north Guard House near	Runnymeade	0	N.D.
Area 120 ft. east of north Guard House near		0	N.D.
Area 120 ft. east of north Guard House near		0	N.D.
	· ·		
Area 20 ft. west from north Guard House		0	N.D.
Area 20 ft. west from north Guard House		Ō	N.D.
Area 20 ft. west from north Guard House		Ō	N.D.
Area 40 ft. west from north Guard House		0	N.D.
Area 40 ft. west from north Guard House		ŏ	N.D.
Area 40 ft. west from north Guard House		Ö	N.D.
		Ŭ	
Steps leading to old Talbott Home		1,000	N.D.
Steps leading to old Talbott Home	•	1,200	N.D.
Steps leading to old Talbott Home		800	N.D.
Steps leading to old Talbott Home		400	N.D.
Steps leading to old Talbott Home		600	N.D.
brobs reading to old ratbott home		000	и.р.
Wooden walkway from Guard House to Garage		16,800	N.D.
Wooden walkway from Guard House to Garage		31,500	N.D.
Wooden walkway from Guard House to Garage		25,200	N.D.
Wooden walkway from Guard House to Garage		21,000	N.D.
Wooden walkway from Guard House to Garage		31,500	N.D.
Wooden walkway from Guard House to Garage		29,400	N.D.
woodon walkway from duald house to darage		29,400	и.Д.
Steps leading from Office to north Guard Hou	100	16,800	N.D.
Steps leading from Office to north Guard Hou		12,600	N.D.
Steps leading from Office to north Guard Hou		21,000	
Steps leading from Office to north Guard Hou			N.D.
Steps leading from Office to north Guard Hou		14,700	N.D.
Steps leading from Office to north Guard Hou		10,500 18,900	
Steps leading from Office to north Guard Hou		•	N.D.
pteps leading from office to morth duard hou	.50	12,600	N.D.
Left wall ascending steps to north Guard Hou	50	1 600	11 D
Left wall ascending steps to north Guard Hou		1,600	N.D.
Left wall ascending steps to north Guard Hou		1,200	N.D.
		800	N.D.
Left wall ascending steps to north Guard Hou		1,200	N.D.
Left wall ascending steps to north Guard Hou		1,400	N.D.
Left wall ascending steps to north Guard Hou		600	N.D.
Left wall ascending steps to north Guard Hou	SB	400	N.D.

		Prelimir		Fine	
Location		Reading Direct	s Wipe	Readin Direct	ngs Wipe
200000000000000000000000000000000000000		Dilect	#IDO	DITECT	MIDA
Right wall ascending steps	to N. Guard Hous	е		1,000	N.D.
Right wall ascending steps	to N. Guard Hous	е	•	800	N.D.
Right wall ascending steps				1,200	N.D.
Right wall ascending steps				1,400	N.D.
Right wall ascending steps				400	N.D.
Right wall ascending steps	to N. Guard Hous	е		1,000	N.D.
Driveway from N. Gate to Ga	rage			600	N.D.
Driveway from N. Gate to Ga				800	N.D.
Driveway from N. Gate to Ga				70-	
Driveway from N. Gate to Ga				0	N.D.
Driveway from N. Gate to Ga	rage			200	N.D.
W 33 1: 17 m					
Wall by N. Fence (W. of Gus				2,200	N.D.
Wall by N. Fence (W. of Gus Wall by N. Fence (W. of Gus				1,800	N.D.
Wall by N. Fence (W. of Gua				1,000	N.D.
Wall by N. Fence (W. of Gua				600 400	N.D. N.D.
Wall by N. Fence (W. of Gue				1,000	N.D.
				1,000	н.р.
Wooden walkway on N. side o	f Auditorium	104,400		Ren	oved
Wooden walkway on N. side o		92,800		Ren	noved
Wooden walkway on N. side of		34,800			oved
Wooden walkway on N. side of		116,000			oved
Wooden walkway on N. side of		58,000			oved
Wooden walkway on N. side o	I Auditorium	34,800		Ren	noved
South wall by fence				1,000	N.D.
South wall by fence				800	N.D.
·					
South wall 10 ft. from fend	•			600	N.D.
South wall 10 ft. from fend	е			800	N.D.
South wall 20 ft from for	_			3 000	
South wall 20 ft. from fence South wall 20 ft. from fence				1,000	N.D.
bodth warr 20 it. from Tens	9			600	N.D.
South wall 40 ft. from fence	е			600	N.D.
South wall 40 ft. from fend				600	N.D.
South wall 60 ft. from fence	e			400	N.D.
Stone looding dame to Diet	Dand sauth			100	<b>37 -</b>
Steps leading down to Fish Steps leading down to Fish				400	N.D.
Steps leading down to Fish				0	N.D. N.D.
Steps leading down to Fish				200	N.D.
Steps leading down to Fish				0	N.D.
· · ·				_	



	Preliminary	Final
	Readings	Readings
Location	Direct Wipe	<u>Direct Wipe</u>
Right gate post by S. Gate Right gate post by S. Gate Right gate post by S. Gate		0 N.D. 0 N.D. 0 N.D.
Right gate post by S. Gate		0 N.D.
Left gate post by S. Gate		O N.D. O N.D. O N.D. O N.D.
zer gate poor by b. date		
Dirt walk around W. side of Auditorium		21,600 N.D. 5,400 N.D. 10,800 N.D. 3,240 N.D. 6,480 N.D. 3,240 N.D. 10,800 N.D.
Area 10 ft. away from S. Loading Dock	116,000 400	Removed
Area 10 ft. away from S. Loading Dock	125,000 1,600	Removed
Area 10 ft. away from S. Loading Dock		30,000 N.D.
Area 10 ft. away from S. Loading Dock	200,000 2,800	Removed
Area 10 ft. away from S. Loading Dock	200,000 2,400	Removed
Area 10 ft. away from S. Loading Dock	250,000 2,800	Removed
Area 10 ft. away from S. Loading Dock	116,000 1,200	Removed
Area 10 ft. away from S. Loading Dock		33,000 N.D.
Area 10 ft. away from S. Loading Dock	55,000 + 600	Removed
Area 20 ft. away from S. Loading Dock		21,600 N.D.
Area 20 ft, away from S. Loading Dock		10,800 N.D.
Area 20 ft. away from S. Loading Dock		21,600 N.D.
Area 20 ft. away from S. Loading Dock		8,640 N.D.
Area 20 ft. away from S. Loading Dock		9,720 N.D.
Area 20 ft. away from S. Loading Dock		6,480 N.D.
Area 20 ft. away from S. Loading Dock		17,280 N.D.
Area 20 ft. away from S. Loading Dock		27,020 N.D.
		07 (00 11 7
Area 20 ft. away from S. Loading Dock		21,600 N.D.
Area 20 ft. away from S. Loading Dock		10,800 N.D.
Area 20 ft. away from S. Loading Dock Area 20 ft. away from S. Loading Dock		21,600 N.D. 8,640 N.D.
· · · · · · · · · · · · · · · · · · ·		•
Area 20 ft. away from S. Leading Dock Area 20 ft. away from S. Leading Dock		9,720 N.D. 6,480 N.D.
Area 20 ft. away from S. Loading Dock		17,280 N.D.
Area 20 ft. away from S. Loading Dock		27,020 N.D.
Area 20 ft. away from S. Loading Dock		28,100 N.D.
Area 20 ft. away from S. Loading Dock		30,260 N.D.
Area 20 ft. away from S. Loading Dock		15,020 N.D.
Area 20 ft. away from S. Loading Dock		7,560 N.D.
IMOLACCIT	יורח	

	Preliminary		Final	
•	Readir	ngs	Readir	igs
Location	Direct	Wipe	Direct	Wipe
		<del></del>		
Area 30 ft. away from S. Loading Dock			5,400	N.D.
Area 30 ft. away from S. Loading Dock			3,240	N.D.
Area 30 ft. away from S. Loading Dock			17,280	N.D.
Area 30 ft. away from S. Leading Dock			7,560	
Area 30 ft. away from S. Loading Dock			10,800	
Area 30 ft. away from S. Loading Dock			12,860	
Area 30 ft. away from S. Loading Dock				N.D.
Area 30 ft. away from S. Loading Dock			7,560	
Area 30 ft. away from S. Loading Dock			6,480	N.D.
Ald your away from b. Boading book			0,400	
Area 40 ft. away from S. Loading Dock		4	7,560	N.D.
Area 40 ft. away from S. Loading Dock			4,320	N.D.
Area 40 ft. away from S. Loading Dock	•		3,240	N.D.
Area 40 ft. away from S. Loading Dock			5,400	N.D.
Area 40 ft. away from S. Loading Dock			32,420	N.D.
taran da antara da a			36,740	N.D.
Area 40 ft. away from S. Loading Dock			10,800	N.D.
Area 40 ft. away from S. Loading Dock	•		8,640	
Area 40 ft. away from S. Loading Dock				
Area 40 ft. away from S. Loading Dock			9,720	N.D.
Amon 50 64 owner from C. Londing Dock			7,560	N.D.
Area 50 ft. away from S. Loading Dock		• .		
Area 50 ft. away from S. Loading Dock			10,800	
Area 50 ft. away from S. Loading Dock			6,480	
Area 50 ft. away from S. Loading Dock			8,640	
Area 50 ft. away from S. Leading Dock			7,560	
Area 50 ft. away from S. Loading Dock			6,480	
Area 50 ft. away from S. Loading Dock			5,400	N.D.
Area 50 ft. away from S. Loading Dock	•		4,320	N.D.
			-	
Concrete Slab East of Auditorium			10 000	17 D
Northeast corner			10,800	
North center			8,640	N.D.
Northwest corner			9,720	N.D.
Center			11,780	N.D.
Center		•	21,600	N.D.
Center			.27,020	N.D.
Southeast corner			35,660	N.D.
South center		•	55,000	N.D.
Southwest corner			21,600	N.D.
Walkway around east side of Auditorium			43,200	N.D.
Walkway around east side of Auditorium			36,740	N.D.
Walkway around east side of Auditorium			45,360	N.D.
Walkway around east side of Auditorium			47,520	N.D.
Walkway around east side of Auditorium		•	16,200	N.D.
Walkway around east side of Auditorium			13,940	и.э.
Walkway around east side of Auditorium			36,740	N.D.

	Preliminary		Final	
	Readings		Readings	
Location	Direct	Wipe	Direct	Wipe
Concrete steps on East side of Auditorium			16,200	N.D.
Concrete steps on East side of Auditorium			3,420	N.D.
Concrete steps on East side of Auditorium			23,760	N.D.
Concrete steps on East side of Auditorium			16,200	N.D.
Concrete steps on East side of Auditorium			15,020	N.D.
Concrete steps on East side of Auditorium			23,760	N.D.
The at Dad response Make dom Cumface	250,000	600	Ret	noved
East Driveway Macadam Surface	225,000	800		noved
East Driveway Macadam Surface	250,000	600		noved
East Driveway Macadam Surface	225,000	1,000		noved
East Driveway Macadam Surface	100,000	N.D.		noved
East Driveway Macadam Surface	80,000	N.D.		noved
Rast Driveway Macadam Surface		N.D.		noved
East Driveway Macadam Surface	32,420			noved
East Driveway Macadam Surface	24,840	N.D.		noved
East Driveway Macadam Surface	21,600	N.D.		noved
East Driveway Macadam Surface	80,000	N.D.		
East D.iveway Macadam Surface	36,740	N.D.	Rei	rove:1
North Gate			1,000	N.D.
North Gate			600	N.D.
North Gate			400	N.D.
North Gate			0	N.D.
North Gate			0	N.D.
			_	
Fence toward Garage (from North Gate)			0	N.D.
Fence toward Garage (from North Gate)			0	N.D.
Fence toward Garage (from North Gate)			0	N.D.
Fence toward Garage (from North Gate)			0	N.D.
Fence toward Garage (from North Gate)			0	N.D.
Dane Wast of Namib Coard House			0	N.D.
Fence West of North Guard House			Ö	N.D.
Fence West of North Guard House			ŏ	N.D.
Fence West of North Guard House			Ö	N.D.
Fence West of North Guard House			0	N.D.
Fence West of North Guard House			0	N.D.
Fence West of North Guard House			. 0	
Fence West of North Guard House			·	N.D.
South Gate			8,000	N.D.
South Gate			400	N.D.
South Gate			7,000	N.D.
South Gate	•		600	N.D.
South Gate			800	N.D.
South Gate			1,000	N.D.

	Preliminary	Fina:	1
	Readings	Reading	gs
Location	<u>Direct</u> Wipe	Direct	Wipe
Fence from South Gate to East Gate		0	N.D.
Fence from South Gate to East Gate		0	N.D.
Fence from South Gate to East Gate Fence from South Gate to East Gate		0	N.D.
Fence from South Gate to East Gate		0	N.D.
East Gate	·	400	N.D.
East Gate		600	N.D.
East Gate		300	N.D.
East Gate		500	N.D.
East Gate		0	N.D.
East Gate		200	N.D.

#### Ceiling Insulation

Four areas of 280 square feet each in different areas of the ceiling were surveyed on November 25, 1949. The following direct readings were obtained (in d./min./100 cm.<sup>2</sup>):

Area Reading	1	_2_	3	_4
	17,100	20,520	9,120	45,000
	14,820	60,000	5,700	20,520
	11,400	60,000	2,280	14,820
	9,120	0	6,840	30,000
	45,000	2,280	11,400	15,960
	10,260	2,280	7,980	5,700
•	45,000	2,280	13,680	11,400
	45,000	2,280	10,260	30,000
	15,000	3,420	6,840	17,100
	4,800	3,420	4,940	13,680
A Comment	,,	1,140	2,280	14,820
		1,140	6,840	12,540
		9,120	6,840	14,820
•		12,540	7,980	30,000
		13,680	4,560	12,540
		9,120	5,700	6,840
•		11,400	6,840	13,680
		19,380	11,400	18,240
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	30,000

On two different occasions, sections of the insulation were taken down and surveyed. Insulation comes in two parts with paper backing on each section. In both cases wipe tests of all surfaces were not detectable or barely detectable. Wipe tests of paper on which insulation was laid gave no readings, which indicates at least that dusting is not excessive or likely to be a problem.

Twenty wipe tests made in Area 3 were not detectable or just barely detectable (less than one division on an alpha meter calibrated to read 240 d./min./division).

On the basis of this data, ceiling insulation was left for removal and disposal by the contractor.

TAB G

TAB G - AIR SAMPLES

#### AIR SAMPLES AT UNIT IV 1N d./min./m.3

	Number of Samples						
	0 to 1,000	1,000 to 3,000	3,000 to 10,000	10,000 to 25,000	25,000 to 50,000	*0ver	TOTAL
June	72	31	14	4	4	4	129
July	61	33	6	9	1	0	110
August	8	14	2	0	0	0	24
September	25	61	27	17	2	3	135
October	5	34	65	45	24	19	192
November	9	44	51	32	13	5	154
December	20	52	60	29	12	4	177
January	14	15	_9	0	_0	0	38
TOTAL	214	284	234	136	56	35	959
Per Cent of Total	22.4	29.6	24.4	14.2	5.8	3.6	100.0

<sup>\*</sup> These samples were mostly in the 50,000 to 100,000 range, with the maximum single sample being 700,000 d./min./m. $^3$ 

TAB H

TAB H - SUMMARY OF URINE SAMPLES

#### SUMMARY OF URINE SAMPLES AT UNIT IV IN c./min./50 ml.

	•			Number	of Samples	Contaminated	- <u> </u>
	0 to 2	3 to 5	<u>6 to 8</u>	9 to 11	*12 to 30	Plus Insufficient	TOTAL
Juņe	13	8	5	2	6	4	38
July	15	0	3	3	5	2	28
August	12	4	3	1	0	. 2	22
September	22	8	3	0	0	3	36
October	58	27	10	6	0	5	106
November	32	25	11	6	3	6	83
December	57	24	8	4	5	8	106
Jamuary	_23	9	0	2	_0	1	35
TOTAL	232	105	43	24	19	31	454
Per Cent of Total	51.1	23.1	9.5	5.3	4.2	6.8	100.0

\* Three men only became "hot" during the work at Unit IV, with maximum count of 30 c./min./50 ml. This involved a total of 360 manhours out of approximately 18,000 manhours expended on the project.

MOUND LABORATORY-MONSANTO
Central File No. 272 M-46 (T)

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July 19, 1950

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Mr. P. A. Felcher
Area Measger, Layton Area
United Scance Atomic Energy Commission
Mound Imboratory
Viscisburg, Chic

Dear Er. Pelcher:

Subject: C.M.L. TICH HACKT OF TESTOME OF THIS IV

inteched herewith are five copies of our Completion deport on the Disposal of Units III and IV. I think our men deserve great credit for the enderly and expeditious manner in which this vexing job was accomplished and at a cost considerably less than the estimate. Let us hope that the School coard takes back Unit III with no more fuze, so that we can have both of these sites completely off our hands.

Very truly yours,

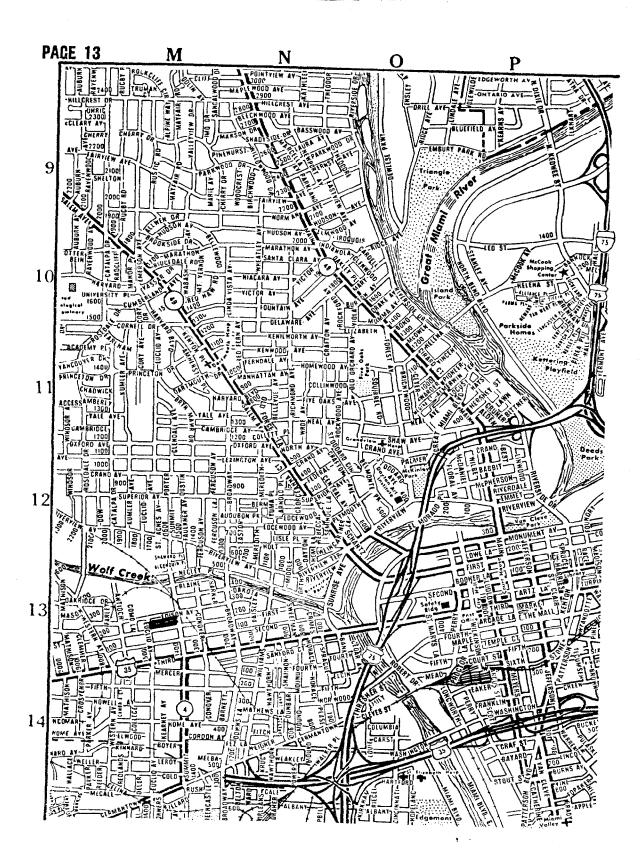
M. M. Saring. Laboratory Director.

**dbl**eE3

co: Tr. Cerroll A. Hochwalt Dr. J. J. Durbege

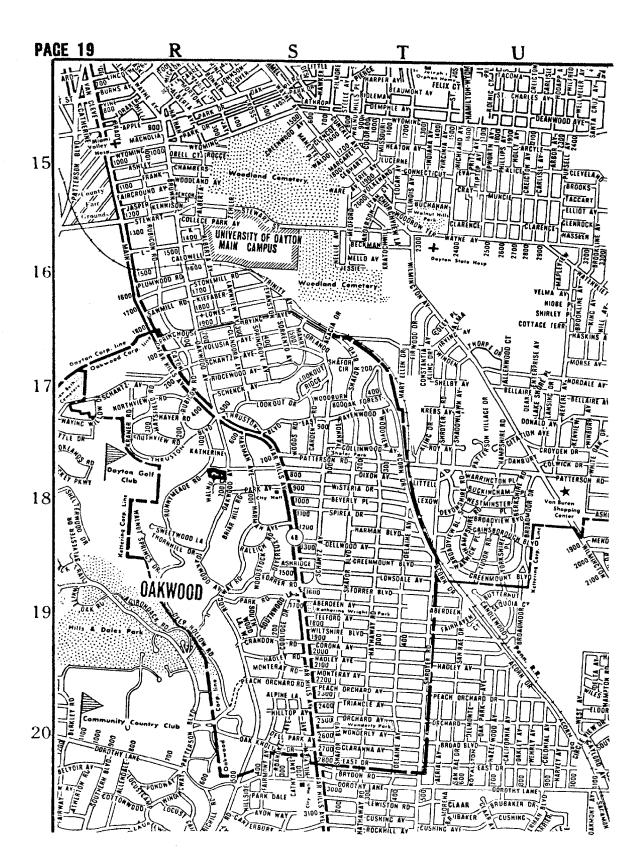
br. F. L. Salbach Central Files

#### UNIT III



N 1

### \_UNIT IV



N 1